

for Paul Schultze  
114 133  
SEARCH REQUEST FORM

Access DB# \_\_\_\_\_

Scientific and Technical Information Center

Requester's Full Name: Sabira Ozy Examiner #: 74141 Date: 2/10/04  
Art Unit: 1616 Phone Number 30-0622 Serial Number: 16070766  
Mail Box and Bldg/Room Location: 4C70/1000 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Herbicidal composition  
Inventors (please provide full names): Jutta Glock

Earliest Priority Filing Date: 371 of PCT/EP00/08661 9/5/2000

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for the compd of formula (I)  
and the combination with a safener of  
formula (II a).  
Elected species is when all sub. are H  
in formula (I) and mefenpyr-ethyl from  
II a.

Please see attached sheets  
Cl 7 is compds claim  
Thank you

\*\*\*\*\*

STAFF USE ONLY

|  | Type of Search         | Vendors and cost where applicable |
|--|------------------------|-----------------------------------|
| Searcher: <u>Schultze</u>              | NA Sequence (#) _____  | STN <u>846</u>                    |
| Searcher Phone #: _____                | AA Sequence (#) _____  | Dialog _____                      |
| Searcher Location: _____               | Structure (#) <u>4</u> | Questel/Orbit _____               |
| Date Searcher Picked Up: <u>2/17</u>   | Bibliographic _____    | Dr. Link _____                    |
| Date Completed: <u>2/17</u>            | Litigation _____       | Lexis/Nexis _____                 |
| Searcher Prep & Review Time: <u>30</u> | Fulltext _____         | Sequence Systems _____            |
| Clerical Prep Time: _____              | Patent Family _____    | WWW/Internet _____                |
| Online Time: <u>30</u>                 | Other _____            | Other (specify) _____             |

FILE 'HCAPLUS' ENTERED AT 14:36:27 ON 17 FEB 2004  
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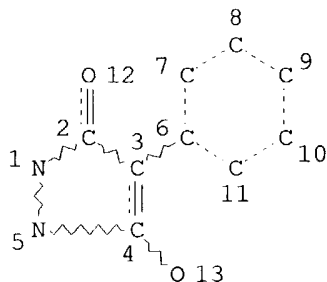
FILE COVERS 1907 - 17 Feb 2004 VOL 140 ISS 8  
FILE LAST UPDATED: 16 Feb 2004 (20040216/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 112

L3

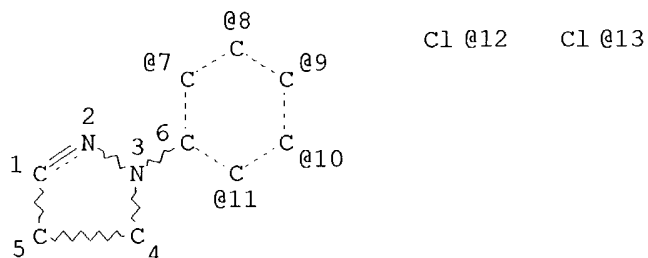
STR



NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE  
L5 610 SEA FILE=REGISTRY SSS FUL L3  
L6 STR

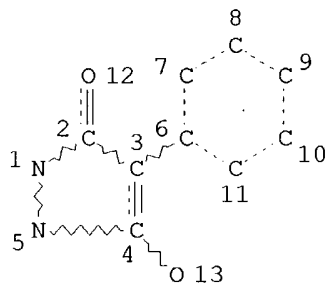


VPA 12-7/8/9 U  
 VPA 13-11/10/9 U  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE  
 L8 18281 SEA FILE=REGISTRY SSS FUL L6  
 L12 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 AND L8

=> d que 114  
 L3 STR

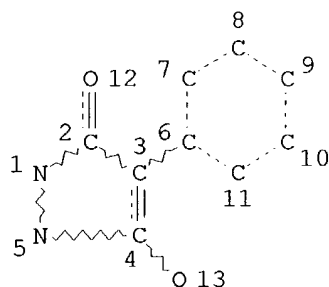


NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE  
 L5 610 SEA FILE=REGISTRY SSS FUL L3  
 L13 44060 SEA FILE=HCAPLUS ABB=ON PLU=ON HERBICIDES+PFT,NT/CT  
 L14 13 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 AND L13

=> d que 115  
 L3 STR



## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 13

## STEREO ATTRIBUTES: NONE

L5 610 SEA FILE=REGISTRY SSS FUL L3

L15 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L5(L) (HERBIC? OR DEFOL?)

=&gt; s l12 or l14 or l15

L19 15 L12 OR L14 OR L15

=&gt; d l19 ibib ab hitind hitstr 1-15

L19 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:591187 HCAPLUS

DOCUMENT NUMBER: 139:149659

TITLE: Preparation of phenyl substituted heterocyclic compounds for use in herbicide compositions

INVENTOR(S): Friedmann, Adrian Alberto; Stoller, Andre; Wendeborn, Sebastian

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 2003062244   | A1   | 20030731 | WO 2003-EP555   | 20030121 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                 |          |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,   |      |          |                 |          |

NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

CH 2002-119

A 20020122

OTHER SOURCE(S):

MARPAT 139:149659

AB Heterocyclyl fatty acid esters, such as I [R = fatty acid acyl, such as lauroyl, palmitoyl, oleoyl or stearoyl], were prepd. for use as herbicides. Thus, 8-(2,6-diethyl-4-methylphenyl)tetrahydro-7H-pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione was reacted with lauroyl chloride using Et<sub>3</sub>N in THF to form ester I (R = lauroyl). The prepd. esters were tested for herbicidal activity, as well as for phytotoxicity with respect to wheat, by application to pots of soil sown with monocotyledonous and dicotyledonous weeds and summer wheat.

IC ICM C07D498-04

CC 28-22 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5, 26

IT **Herbicides**

(selective; prepn. of fatty acid esters derivs. of 8-(2,6-diethyl-4-methylphenyl)tetrahydro-7H-pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione for use as herbicides)

IT 571166-78-4P 571166-79-5P 571166-80-8P

571166-81-9P 571166-82-0P 571166-83-1P

571166-84-2P 571166-86-4P 571166-87-5P

571166-88-6P 571166-89-7P

RL: ADV (Adverse effect, including toxicity); AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of fatty acid esters derivs. of 8-(2,6-diethyl-4-methylphenyl)tetrahydro-7H-pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione for use as **herbicides**)

IT 571166-78-4P 571166-79-5P 571166-80-8P

571166-81-9P 571166-82-0P 571166-83-1P

571166-84-2P 571166-86-4P 571166-87-5P

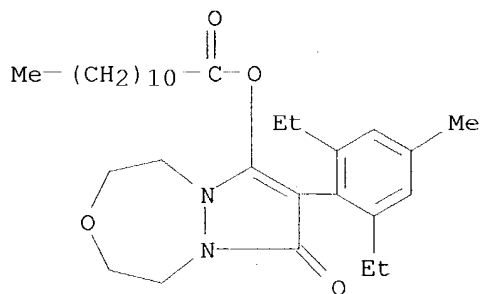
571166-88-6P 571166-89-7P

RL: ADV (Adverse effect, including toxicity); AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of fatty acid esters derivs. of 8-(2,6-diethyl-4-methylphenyl)tetrahydro-7H-pyrazolo[1,2-d][1,4,5]oxadiazepine-7,9(8H)-dione for use as **herbicides**)

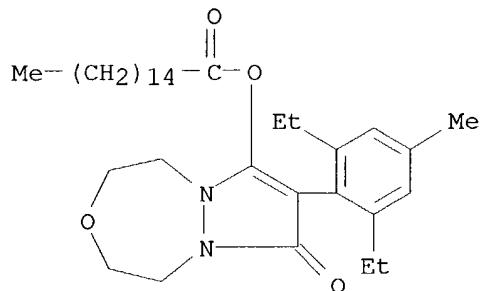
RN 571166-78-4 HCAPLUS

CN Dodecanoic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 571166-79-5 HCAPLUS

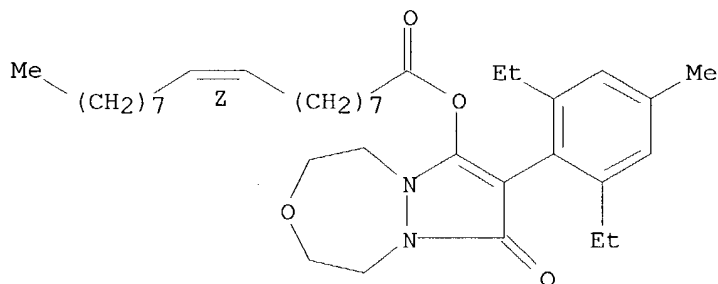
CN Hexadecanoic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 571166-80-8 HCAPLUS

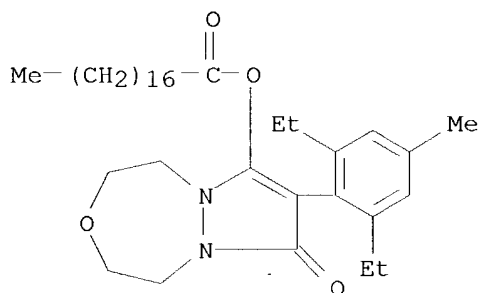
CN 9-Octadecenoic acid (9Z)-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 571166-81-9 HCAPLUS

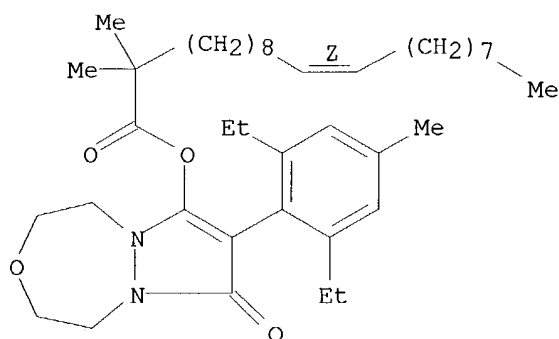
CN Octadecanoic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 571166-82-0 HCAPLUS

CN 11-Eicosenoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, (11Z)- (9CI) (CA INDEX NAME)

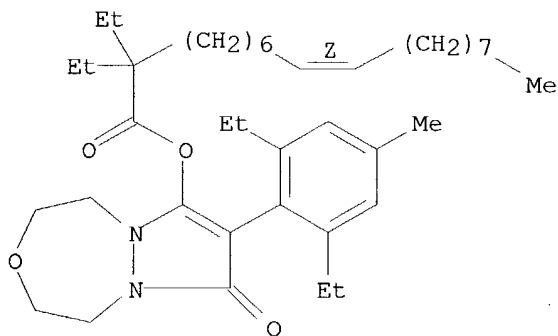
Double bond geometry as shown.



RN 571166-83-1 HCAPLUS

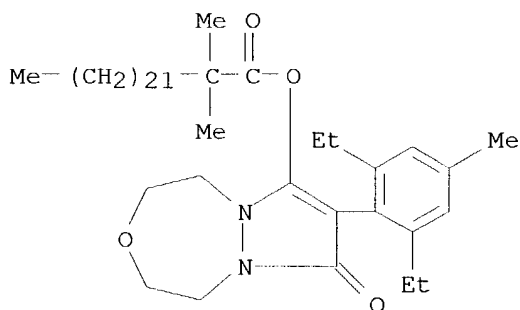
CN 9-Octadecenoic acid, 2,2-diethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, (9Z)-  
(9CI) (CA INDEX NAME)

Double bond geometry as shown.



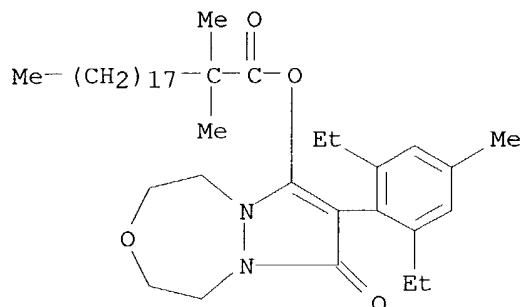
RN 571166-84-2 HCAPLUS

CN Tetracosanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



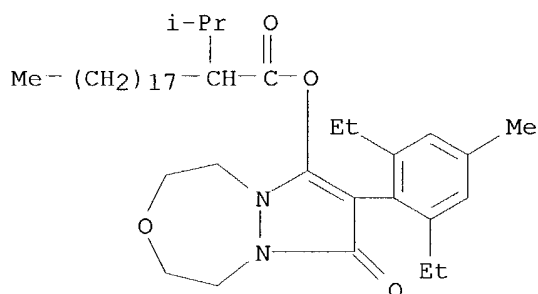
RN 571166-86-4 HCAPLUS

CN Eicosanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



RN 571166-87-5 HCAPLUS

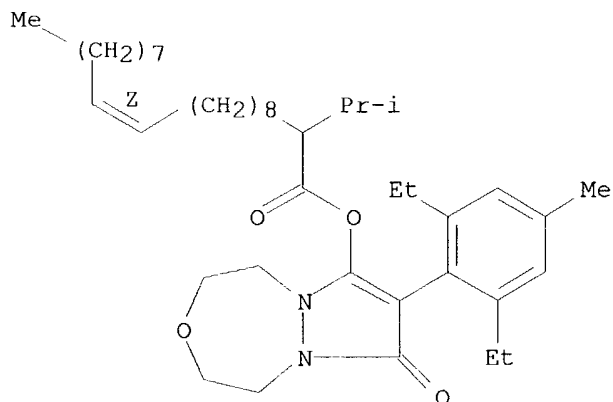
CN Eicosanoic acid, 2-(1-methylethyl)-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



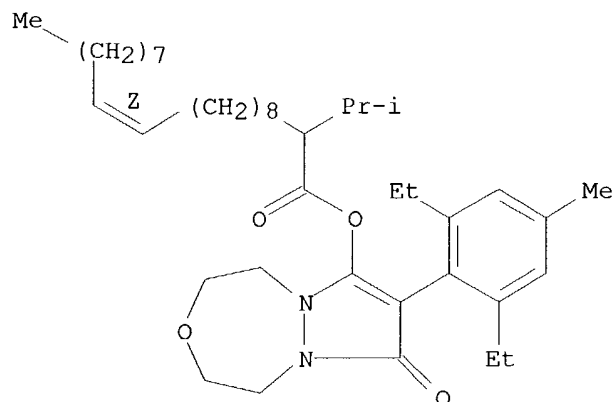
RN 571166-88-6 HCAPLUS

CN 11-Eicosenoic acid, 2-(1-methylethyl)-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, (11Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



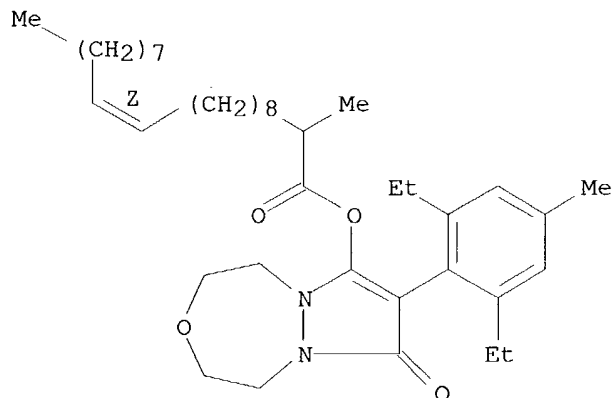




RN 571166-89-7 HCAPLUS

CN 11-Eicosenoic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, (11Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:221440 HCAPLUS

DOCUMENT NUMBER: 138:250184

TITLE: Adjuvants for pesticides comprising alkoxyated long-chain alcohols and acids

INVENTOR(S): Bell, Gordon Alastair; Hart, Clifford Arthur; Murfitt, Roger Cyril; Sutton, Peter Bernard

PATENT ASSIGNEE(S): Syngenta Limited, UK

SOURCE: PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|---------------|------|----------|-----------------|----------|
| WO 2003022048 | A1   | 20030320 | WO 2002-GB3906  | 20020823 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: GB 2001-21580 A 20010906

OTHER SOURCE(S): MARPAT 138:250184

AB Adjuvants suitable for use with lipophilic agrochems. comprise alkoxyated long-chain alcs. and acids and their end-capped ethers of the formula (I)  $R_1-(CO)_m-O-[-R_2O-]_n-R_3$  ( $R_1 = C_{16}-C_{20}$  (un)branched alkyl or alkenyl;  $R_2 = Et$  or iso-Pr;  $n = 8-30$ ;  $m = 0$  or 1; and when  $R_2 = Et$ ,  $R_3 = C_1-C_7$  alkyl, and when  $R_2 = iso-Pr$ ,  $R_3 = H$  or  $C_1-C_7$  alkyl, provided that when  $R_1 = oleyl$ ,  $R_2 = iso-Pr$  and  $R_3 = H$ ,  $n$  is not 10). An adjuvant compn. comprising an agrochem. and an adjuvant of formula (I) is also claimed. Adjuvants of the invention show effective bioperformance enhancement despite having little or no surfactant properties.

IC ICM A01N025-00  
ICS A01N025-30; A01N043-60; A01N025-14

CC 5-6 (Agrochemical Bioregulators)

IT Fungicides

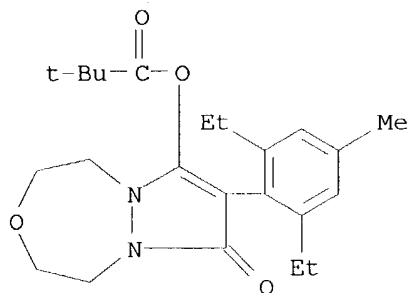
**Herbicides**  
(adjuvants comprising alkoxyated long-chain alcs. and acids, for)

IT 79241-46-6 131860-33-8, Azoxystrobin **243973-20-8**  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(adjuvants comprising alkoxyated long-chain alcs. and acids, for)

IT **243973-20-8**  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
(adjuvants comprising alkoxyated long-chain alcs. and acids, for)

RN 243973-20-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:855864 HCAPLUS

DOCUMENT NUMBER: 139:214344

TITLE: Product class 1: pyrazoles

AUTHOR(S): Stanovnik, B.; Svete, J.

CORPORATE SOURCE: Faculty of Chemistry and Chemical Technology, Division  
of Organic Chemistry, Ljubljana, 61000, Slovenia

SOURCE: Science of Synthesis (2002), 12, 15-225

CODEN: SSCYJ9

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. Methods for prepg. pyrazoles are reviewed including  
cyclization, ring transformation, aromatization and substituent  
modifications.

CC 28-0 (Heterocyclic Compounds (More Than One Hetero Atom))

|    |             |                    |             |             |             |
|----|-------------|--------------------|-------------|-------------|-------------|
| IT | 90145-20-3  | 90932-14-2         | 91075-65-9  | 91076-80-1  | 91076-82-3  |
|    | 91157-97-0  | 91787-80-3         | 92922-20-8  | 93011-61-1  | 93259-79-1  |
|    | 93618-28-1  | 94514-84-8         | 94775-16-3  | 94879-64-8  | 95006-27-2  |
|    | 95165-75-6  | 95319-34-9         | 95941-53-0  | 96075-61-5  | 97421-12-0  |
|    | 98477-01-1  | 98606-90-7         | 98606-92-9  | 98606-93-0  | 98606-94-1  |
|    | 98606-95-2  | 98700-53-9         | 99067-79-5  | 99472-27-2  | 100136-56-9 |
|    | 100142-72-1 | 100159-47-5        | 100965-70-6 | 101459-94-3 | 101476-75-9 |
|    | 101476-76-0 | 101476-77-1        | 101476-78-2 | 101590-33-4 | 102997-19-3 |
|    | 102997-20-6 | 102997-21-7        | 102997-22-8 | 102997-23-9 | 102997-24-0 |
|    | 102997-25-1 | 102997-26-2        | 102997-27-3 | 102997-28-4 | 104857-88-7 |
|    | 106128-38-5 | <b>106204-56-2</b> | 106675-53-0 | 106823-51-2 |             |
|    | 107165-84-4 | 107195-10-8        | 108161-18-8 | 108521-49-9 | 110821-29-9 |
|    | 110860-60-1 | 111269-40-0        | 111480-44-5 | 111480-48-9 | 111888-23-4 |
|    | 111999-18-9 | 112182-59-9        | 112182-60-2 | 112182-62-4 | 112382-34-0 |
|    | 113675-15-3 | 113675-16-4        | 114618-84-7 | 115581-11-8 | 116922-32-8 |
|    | 117007-77-9 | 117040-56-9        | 117510-94-8 | 117784-12-0 | 117784-13-1 |
|    | 117784-14-2 | 117784-15-3        | 117784-16-4 | 118110-49-9 | 118349-40-9 |
|    | 119393-24-7 | 120596-96-5        | 120596-97-6 | 120596-98-7 | 120779-86-4 |
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|    | 122019-72-1 | 122019-73-2        | 126580-10-7 | 126580-12-9 | 126801-51-2 |
|    | 126839-83-6 | 127847-39-6        | 127847-40-9 | 127847-41-0 | 127847-43-2 |
|    | 129118-11-2 | 131991-42-9        | 132026-26-7 | 132026-28-9 | 132026-29-0 |
|    | 134481-27-9 | 135659-87-9        | 142395-76-4 | 142395-77-5 | 142809-81-2 |
|    | 142809-83-4 | 142809-84-5        | 142809-85-6 | 142818-04-0 | 142818-05-1 |
|    | 144008-07-1 | 154771-81-0        | 155105-91-2 | 155105-93-4 | 155105-95-6 |
|    | 155105-96-7 | 155105-97-8        | 156519-20-9 | 157250-50-5 | 162468-76-0 |
|    | 168976-20-3 | 168976-21-4        | 168976-37-2 | 168976-38-3 | 168976-39-4 |
|    | 169384-93-4 | 170960-25-5        | 177940-20-4 | 181184-95-2 | 181184-96-3 |
|    | 182422-09-9 | 182422-10-2        | 182422-11-3 | 182422-12-4 | 187022-66-8 |
|    | 187022-67-9 | 193816-17-0        | 196394-47-5 | 201030-53-7 | 201477-91-0 |
|    | 204767-36-2 | 204767-46-4        | 208511-68-6 | 208999-74-0 | 208999-81-9 |
|    | 211256-72-3 | 211256-73-4        | 211256-74-5 | 239125-34-9 | 239809-28-0 |
|    | 246164-19-2 | 251940-02-0        | 251940-03-1 | 251940-04-2 | 343360-44-1 |
|    | 343815-01-0 | 345254-14-0        | 351333-40-9 | 389136-24-7 | 391616-10-7 |
|    | 408332-78-5 | 412300-23-3        | 412304-79-1 | 591234-69-4 | 591234-70-7 |
|    | 591234-71-8 | 591234-72-9        | 591234-73-0 | 591234-74-1 | 591234-75-2 |
|    | 591234-76-3 | 591234-77-4        | 591234-78-5 | 591234-79-6 | 591234-80-9 |

|             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|
| 591234-81-0 | 591234-82-1 | 591234-83-2 | 591234-84-3 | 591234-85-4 |
| 591234-86-5 | 591234-87-6 | 591234-88-7 | 591234-89-8 | 591234-90-1 |
| 591234-92-3 | 591234-93-4 | 591234-94-5 | 591234-95-6 | 591234-96-7 |
| 591235-10-8 | 591235-14-2 | 591235-22-2 | 591235-25-5 | 591235-26-6 |
| 591235-28-8 | 591235-29-9 | 591235-30-2 | 591235-32-4 | 591235-33-5 |
| 591235-34-6 | 591235-35-7 | 591235-36-8 | 591235-37-9 | 591235-38-0 |
| 591235-39-1 | 591235-40-4 | 591235-41-5 | 591235-42-6 | 591235-43-7 |
| 591235-44-8 | 591235-45-9 | 591235-46-0 | 591235-47-1 | 591235-48-2 |
| 591235-49-3 | 591235-50-6 | 591235-51-7 | 591235-52-8 | 591235-53-9 |
| 591235-54-0 | 591235-55-1 | 591235-57-3 | 591235-58-4 | 591235-59-5 |

RL: RCT (Reactant); RACT (Reactant or reagent)

(review of prepn. of pyrazoles via cyclization, ring transformation, aromatization and substituent modifications)

|    |             |             |                    |             |             |
|----|-------------|-------------|--------------------|-------------|-------------|
| IT | 591235-60-8 | 591235-61-9 | 591235-62-0        | 591235-63-1 | 591235-64-2 |
|    | 591235-65-3 | 591235-66-4 | 591235-67-5        | 591235-68-6 | 591235-71-1 |
|    | 591235-72-2 | 591235-73-3 | <b>591235-74-4</b> |             |             |

RL: RCT (Reactant); RACT (Reactant or reagent)

(review of prepn. of pyrazoles via cyclization, ring transformation, aromatization and substituent modifications)

|    |                              |                   |                   |                    |                        |
|----|------------------------------|-------------------|-------------------|--------------------|------------------------|
| IT | 67-51-6P                     | 89-25-8P          | 93-91-4P          | 137-44-0P          | 288-13-1P, 1H-Pyrazole |
|    | 623-38-1P                    | 694-31-5P         | 694-48-4P         | 826-85-7P          | 879-62-9P 930-36-9P    |
|    | 934-48-5P                    | 942-32-5P         | 1016-41-7P        | 1072-91-9P         | 1080-89-3P 1125-28-6P  |
|    | 1125-29-7P                   | 1126-00-7P        | 1127-84-0P        | 1128-54-7P         | 1128-56-9P             |
|    | 1131-16-4P                   | 1131-18-6P        | 1134-50-5P        | 1137-11-7P         | 1137-66-2P             |
|    | 1140-37-0P                   | 1145-01-3P        | 1157-37-5P        | 1159-59-7P         | 1192-21-8P             |
|    | 1210-43-1P                   | 1437-14-5P        | 1453-58-3P        | 1493-47-6P         | 1572-10-7P             |
|    | 1575-27-5P                   | 1666-85-9P        | 1688-30-8P        | 1688-32-0P         | 1820-80-0P,            |
|    | 1H-Pyrazol-3-amine           | 1904-31-0P        | 2045-99-0P        | 2075-46-9P         | 2183-27-9P             |
|    | 2305-79-5P                   | 2311-90-2P        | 2458-26-6P        | 2817-71-2P         | 2820-37-3P             |
|    | 2820-38-4P                   | <b>3181-98-4P</b> | <b>3182-01-2P</b> | <b>3182-03-4P</b>  |                        |
|    | 3198-98-9P                   | 3318-61-4P        | 3347-62-4P        | 3463-30-7P         | 3524-13-8P             |
|    | 3524-16-1P                   | 3524-21-8P        | 3524-28-5P        | 3524-29-6P         | 3528-58-3P             |
|    | 3656-02-8P                   | 3656-03-9P        | 3656-04-0P        | 3729-90-6P         | 3920-50-1P,            |
|    | 1H-Pyrazole-3-carboxaldehyde | 3968-40-9P        | 3968-41-0P        | 3968-42-1P         |                        |
|    | 3968-43-2P                   | 3994-50-1P        | 4027-54-7P        | 4027-57-0P         | 4042-00-6P             |
|    | 4054-67-5P                   | 4149-06-8P        | 4345-49-7P        | 4394-26-7P         | 4492-01-7P             |
|    | 4492-02-8P                   | 4747-46-0P        | 4755-53-7P        | 4845-49-2P         | 5334-41-8P             |
|    | 5334-43-0P                   | 5346-53-2P        | 5346-61-2P        | 5356-71-8P         | 5363-42-8P             |
|    | 5456-92-8P                   | 5519-42-6P        | 5589-97-9P        | 5744-40-1P         | 5744-51-4P             |
|    | 5745-84-6P                   | 5775-82-6P        | 5775-86-0P        | 5932-27-4P         | 5932-28-5P             |
|    | 5932-30-9P                   | 6076-12-6P        | 6126-17-6P        | 6126-19-8P         | 6402-09-1P             |
|    | 6632-05-9P                   | 6670-06-0P        | 6670-10-6P        | 6670-11-7P         | 6715-94-2P             |
|    | 6831-89-6P                   | 6833-82-5P        | 6844-58-2P        | 7119-95-1P         | 7185-93-5P             |
|    | 7188-75-2P                   | 7188-89-8P        | 7188-93-4P        | 7188-94-5P         | 7189-00-6P             |
|    | 7189-04-0P                   | 7189-12-0P        | 7189-13-1P        | 7231-31-4P         | 7231-33-6P             |
|    | 7369-20-2P                   | 7409-21-4P        | 7409-26-9P        | 7409-27-0P         | 7539-22-2P             |
|    | 7539-27-7P                   | 7554-65-6P        | 7565-27-7P        | 7721-54-2P         | 10010-93-2P            |
|    | 10199-51-6P                  | 10199-60-7P       | 10199-63-0P       | 10199-64-1P        | 10199-67-4P            |
|    | 10199-68-5P                  | 10223-34-4P       | 10234-66-9P       | 10244-76-5P        | 10244-77-6P            |
|    | 10250-62-1P                  | 10252-51-4P       | 10252-53-6P       | 13024-90-3P        | 13051-47-3P            |
|    | 13417-36-2P                  | 13551-76-3P       | 13618-35-4P       | 13745-58-9P        | 13788-84-6P            |
|    | 13788-97-1P                  | 13789-06-5P       | 13806-92-3P       | 13806-93-4P        | 13806-94-5P            |
|    | 13806-95-6P                  | 13806-96-7P       | 13806-97-8P       | 13808-71-4P        | 13808-73-6P            |
|    | 13892-46-1P                  | 13953-92-9P       | 13953-93-0P       | <b>14230-56-9P</b> |                        |
|    | 14269-08-0P                  | 14269-09-1P       | 14298-11-4P       | 14339-33-4P        | 14521-80-3P            |
|    | 14580-15-5P                  | 14766-43-9P       | 14884-01-6P       | 14884-03-8P        | 15131-95-0P            |
|    | 15366-34-4P                  | 15397-33-8P       | 15568-29-3P       | 15802-80-9P        | 15802-97-8P            |

15878-00-9P 15878-08-7P 15878-44-1P 15953-45-4P 16037-45-9P  
 16082-33-0P, 1H-Pyrazole-3,5-diamine 16102-04-8P 16105-46-7P  
 16105-47-8P 16105-48-9P 16105-49-0P 16105-50-3P 16105-51-4P  
 16105-56-9P 16112-35-9P 16151-06-7P 16209-01-1P 16675-35-7P  
 16675-36-8P 16860-55-2P 16901-34-1P 17355-75-8P 17647-23-3P  
 17822-39-8P 17822-40-1P 17822-41-2P 17822-42-3P 17822-43-4P  
 17822-44-5P 17822-45-6P 17822-46-7P 17822-47-8P 17953-06-9P  
 17953-46-7P 18076-30-7P 18093-95-3P 18632-87-6P 18712-48-6P  
 18714-87-9P 18753-55-4P 18767-09-4P 18767-23-2P 18767-27-6P  
 19311-79-6P 19395-19-8P 19551-66-7P, 1H-Pyrazole-3,4,5-tricarboxylic  
 acid 19726-10-4P 19735-89-8P 19848-97-6P 19854-91-2P 19854-92-3P  
 19867-62-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(review of prepn. of pyrazoles via cyclization, ring transformation,  
 aromatization and substituent modifications)

IT 19933-22-3P 19933-24-5P 19968-19-5P 20154-03-4P 20583-31-7P  
 21031-22-1P 21111-32-0P 21377-09-3P 21399-29-1P 21399-30-4P  
 21673-02-9P 21673-05-2P 21686-05-5P 21742-96-1P 21985-07-9P  
 22050-80-2P 22123-18-8P 22675-60-1P 23705-85-3P 24246-07-9P  
 24284-28-4P 24602-40-2P 24602-42-4P 24652-31-1P 25113-25-1P  
 25113-27-3P 25142-45-4P 25142-45-4P 25688-17-9P 25688-18-0P  
 25699-83-6P 25699-97-2P 25699-98-3P 25832-25-1P 26429-26-5P  
 26502-59-0P 27258-12-4P 27258-17-9P 27258-18-0P 27293-94-3P  
 27301-45-7P 27412-71-1P 28077-35-2P 28469-29-6P 28710-59-0P  
 28799-00-0P 28998-67-6P 29075-47-6P 29184-68-7P 29800-97-3P  
 29800-99-5P 29938-67-8P 29938-70-3P 29938-71-4P 29938-72-5P  
 29938-73-6P 29938-74-7P 29938-76-9P 29938-81-6P 29938-95-2P  
 29938-96-3P 29939-12-6P 29939-13-7P 30020-55-4P 30093-77-7P  
 30120-38-8P 30120-50-4P 30120-51-5P 30120-58-2P 30152-31-9P  
 30152-32-0P 30301-20-3P 30595-50-7P **30707-68-7P**  
 30859-61-1P 30885-23-5P 31037-02-2P 31056-45-8P 31163-83-4P  
 31539-68-1P 32058-04-1P 32058-05-2P 32251-82-4P 32258-63-2P  
 32664-22-5P 32664-24-7P 32664-28-1P 32682-87-4P 32682-89-6P  
 32810-83-6P 33045-42-0P 33090-71-0P 34035-06-8P 34035-07-9P  
 34035-08-0P 34765-45-2P 34804-17-6P 34810-67-8P 34985-88-1P  
 35000-51-2P 35228-98-9P 35228-99-0P 35852-77-8P 36140-55-3P  
 36140-80-4P 36140-83-7P 36140-84-8P 36140-85-9P 36595-90-1P  
 36650-74-5P, 1H-Pyrazole-3-carbonitrile 37612-63-8P 37612-74-1P  
 37612-75-2P 37622-86-9P 37622-90-5P 37881-06-4P 38371-97-0P  
 38372-01-9P 38858-81-0P 38858-84-3P 38859-25-5P 38859-26-6P  
 39205-64-6P 39513-08-1P 39513-09-2P 39683-24-4P 39683-26-6P  
 39753-81-6P 40040-65-1P 40339-61-5P 40711-43-1P 40711-44-2P  
 40711-94-2P 41443-37-2P 41443-38-3P 41528-85-2P 41554-99-8P  
 41555-25-3P 42110-76-9P 42165-20-8P 42754-61-0P 42754-62-1P  
 43155-07-3P 43222-48-6P 50561-83-6P 50561-87-0P 50603-96-8P  
 50680-85-8P 50877-39-9P 51073-17-7P 51073-18-8P 51463-88-8P  
 51516-67-7P 51516-68-8P 51658-34-5P 51658-35-6P 51658-36-7P  
 52393-50-7P **52472-98-7P** 52566-42-4P 52944-76-0P  
 52989-18-1P 53608-37-0P 53608-39-2P 53608-42-7P 53608-43-8P  
 53608-45-0P 53666-92-5P 53685-84-0P 53960-85-3P 54045-29-3P  
 54384-66-6P 54384-67-7P 54384-68-8P 54384-73-5P 54554-68-6P  
 54606-21-2P 54679-59-3P 54711-20-5P 54711-21-6P 54799-83-6P  
 54799-84-7P 55115-11-2P 55115-12-3P 55342-93-3P 55428-69-8P  
 55428-71-2P 55752-63-1P 56054-50-3P 56054-54-7P 56445-47-7P  
 56445-48-8P 56445-49-9P 56445-50-2P 56445-51-3P 56445-52-4P  
 56864-72-3P 56864-74-5P 56984-32-8P 57097-81-1P 57179-54-1P  
 57245-93-9P 57389-73-8P 57389-81-8P 57391-77-2P 57391-86-3P

57891-04-0P 58131-66-1P 58311-80-1P 58332-38-0P 58332-43-7P  
 58365-15-4P 58365-16-5P 58536-76-8P 58589-70-1P 58789-61-0P  
**58791-78-9P 58791-79-0P** 58791-82-5P  
**58791-83-6P 58791-84-7P** 58829-75-7P 58829-76-8P  
 58876-75-8P 58876-81-6P 58876-82-7P 58876-83-8P 58876-85-0P  
 58876-86-1P 59166-14-2P 59334-11-1P 59541-46-7P 59548-24-2P  
 59761-73-8P 59761-74-9P 59807-34-0P 59807-35-1P 59807-36-2P  
 59967-95-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(review of prepn. of pyrazoles via cyclization, ring transformation,  
 aromatization and substituent modifications)

|    |             |              |                              |                        |             |
|----|-------------|--------------|------------------------------|------------------------|-------------|
| IT | 60061-66-7P | 60798-06-3P  | 60798-14-3P                  | 61226-19-5P            | 61261-79-8P |
|    | 61261-80-1P | 61261-88-9P  | 61490-97-9P                  | 61490-98-0P            | 62538-27-6P |
|    | 62538-28-7P | 62538-29-8P  | 62538-30-1P                  | 62538-31-2P            | 62538-32-3P |
|    | 62625-79-0P | 63195-03-9P  | 63195-04-0P                  | 63195-05-1P            | 63195-08-4P |
|    | 63425-57-0P | 63569-98-2P  | 63570-00-3P                  | 63570-01-4P            | 63570-02-5P |
|    | 63570-03-6P | 63570-05-8P  | 63570-06-9P                  | 63570-07-0P            | 63570-08-1P |
|    | 63570-09-2P | 63614-73-3P  | 63614-74-4P                  | 63633-46-5P            | 63637-57-0P |
|    | 63637-58-1P | 63637-59-2P  | 63759-63-7P                  | 64123-72-4P            | 64623-66-1P |
|    | 64664-15-9P | 65101-19-1P  | 65287-96-9P                  | 65325-30-6P            | 65939-26-6P |
|    | 65942-77-0P | 65942-79-2P  | 65942-89-4P                  | 65942-91-8P            | 65973-69-5P |
|    | 66000-37-1P | 66040-78-6P  | 66439-33-6P                  | 67219-80-1P            | 67219-82-3P |
|    | 67219-86-7P | 67219-87-8P  | 67381-91-3P                  | 67714-67-4P            | 67714-70-9P |
|    | 67868-44-4P | 68364-61-4P  | 68364-62-5P                  | 68364-63-6P            | 68364-64-7P |
|    | 68364-80-7P | 68364-81-8P  | 68364-82-9P                  | 68719-56-2P            | 68719-58-4P |
|    | 68719-60-8P | 68809-64-3P  | 68809-65-4P                  | 69433-62-1P            | 69433-63-2P |
|    | 69433-64-3P | 69433-65-4P  | 70453-56-4P                  | 70453-57-5P            | 70453-58-6P |
|    | 70453-62-2P | 70453-63-3P  | 70453-64-4P                  | 70498-81-6P            | 70498-82-7P |
|    | 70498-83-8P | 70498-84-9P  | 70498-85-0P                  | 70498-86-1P            | 70498-87-2P |
|    | 70498-88-3P | 70534-90-6P  | 70583-58-3P                  | 70649-20-6P            | 71292-47-2P |
|    | 71296-95-2P | 71955-41-4P  | 72130-81-5P                  | 72130-82-6P            | 72130-83-7P |
|    | 72326-92-2P | 72326-94-4P  | 72499-40-2P                  | 72499-41-3P            | 72510-44-2P |
|    | 72760-85-1P | 72943-67-0P  | 73151-81-2P                  | 73225-13-5P            | 73227-93-7P |
|    | 73306-05-5P | 73773-25-8P  | 74076-85-0P                  | 74269-24-2P            | 75059-30-2P |
|    | 75436-36-1P | 75436-37-2P  | 75436-38-3P                  | 75507-64-1P            | 76112-12-4P |
|    | 76112-13-5P | 76227-42-4P  | 76491-05-9P                  | 76923-15-4P            | 76972-92-4P |
|    | 76972-93-5P | 76972-94-6P  | 76972-95-7P                  | 77435-38-2P            | 77779-69-2P |
|    | 78946-56-2P | 79024-30-9P  | 79024-31-0P                  | 79024-32-1P            | 79024-33-2P |
|    | 79024-34-3P | 80030-92-8P  | 80418-33-3P                  | 80527-66-8P            | 80527-67-9P |
|    | 80527-68-0P | 81153-63-1P  | 81153-64-2P                  | 81227-03-4P            | 81411-21-4P |
|    | 81963-70-4P | 82231-59-2P  | 83959-41-5P                  | 84095-94-3P            | 84095-95-4P |
|    | 84095-96-5P | 84095-97-6P  | <b>84104-31-4P</b>           | 84491-16-7P            |             |
|    | 84504-86-9P | 84504-87-0P  | 84504-88-1P                  | 84504-89-2P            | 84504-90-5P |
|    | 84504-91-6P | 84831-56-1P  | 84831-57-2P                  | 84831-58-3P            | 84831-59-4P |
|    | 85290-72-8P | 85302-11-0P  | 85302-15-4P                  | 85349-83-3P            | 85349-84-4P |
|    | 85349-85-5P | 85349-86-6P  | 85349-87-7P                  | 85485-59-2P            | 85485-62-7P |
|    | 86737-39-5P | 86737-40-8P  | 87013-79-4P                  | 87023-89-0P            | 87383-49-1P |
|    | 87576-95-2P | 87576-96-3P  | 87576-97-4P                  | 87576-98-5P            | 87576-99-6P |
|    | 87839-75-6P | 87839-77-8P  | 88039-32-1P                  | 88039-33-2P            | 88039-36-5P |
|    | 88039-37-6P | 88393-88-8P, | 1H-Pyrazole-1-propanenitrile | 88398-85-0P            |             |
|    | 88529-79-7P | 88585-32-4P  | 88614-56-6P                  | 89193-19-1P            | 89193-22-6P |
|    | 89283-36-3P | 89399-91-7P  | 89532-43-4P,                 | 1H-Pyrazole-1-propanal |             |
|    | 89791-67-3P | 89793-95-3P  | 89943-03-3P                  | 89943-28-2P            | 90002-54-3P |
|    | 90006-65-8P | 90088-87-2P  | 90145-22-5P                  | 90145-25-8P            | 90145-26-9P |
|    | 90145-29-2P | 90145-30-5P  | 90564-80-0P                  | 90565-46-1P            | 90565-82-5P |
|    | 90772-91-1P | 90914-35-5P  | 90946-66-0P                  | 90946-69-3P            | 90953-15-4P |
|    | 91093-96-8P | 91094-03-0P  | 91354-00-6P                  | 91394-44-4P            | 91635-02-8P |

91724-93-5P 91768-59-1P 91783-88-9P 91843-77-5P 91958-98-4P  
 92024-72-1P 92133-93-2P 92133-94-3P 92255-34-0P 92255-77-1P  
 92406-43-4P 92867-97-5P 93045-24-0P 93330-77-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(review of prepn. of pyrazoles via cyclization, ring transformation,  
 aromatization and substituent modifications)

IT 93331-00-1P 93608-11-8P 93702-99-9P 93703-00-5P 93703-01-6P  
 93703-02-7P 93710-99-7P 93711-00-3P 94009-67-3P 94009-69-5P  
 94209-24-2P 94427-97-1P 94514-94-0P 94532-59-9P 94575-24-3P  
 94575-26-5P 94775-21-0P 94775-22-1P 94775-23-2P 94775-24-3P  
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RL: SPN (Synthetic preparation); PREP (Preparation)

(review of prepn. of pyrazoles via cyclization, ring transformation,

|   |                     |               |                       |              |              |
|---|---------------------|---------------|-----------------------|--------------|--------------|
| aromatization and substituent modifications)  |                     |               |                       |              |              |
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|   | 130317-91-8P        | 130657-26-0P  | 130657-27-1P          | 130657-28-2P | 130657-29-3P |
|   | 130657-30-6P        | 130657-31-7P  | 130657-32-8P          | 130657-33-9P | 130657-34-0P |
|   | 130657-35-1P        | 131456-91-2P  | 132026-35-8P          | 132026-37-0P | 132026-38-1P |
|   | 132132-43-5P        | 132595-92-7P  | 132595-94-9P          | 134038-62-3P | 134038-63-4P |
|   | 134038-64-5P        | 134038-65-6P  | 134947-25-4P          | 135659-88-0P | 135659-89-1P |
|   | 135659-90-4P        | 136506-63-3P  | 136506-64-4P          | 138373-16-7P | 138373-17-8P |
|   | 138373-18-9P        | 138373-19-0P  | 138395-33-2P          | 138942-61-7P | 142231-66-1P |
|   | 142231-67-2P        | 142395-82-2P  | 142395-83-3P          | 142809-80-1P | 142809-82-3P |
|   | 142809-86-7P        | 142818-01-7P  | 142818-02-8P          | 142818-03-9P | 143426-49-7P |
|   | 143426-52-2P        | 145162-47-6P  | 155105-99-0P          | 155106-01-7P | 155106-03-9P |
|   | <b>155106-04-0P</b> | 155106-05-1P  | 155688-68-9P          | 155688-87-2P |              |
|   | 157950-99-7P        | 157951-00-3P  | 157951-01-4P          | 157951-02-5P | 157951-03-6P |
|   | 157951-04-7P        | 157951-05-8P  | 157951-06-9P          | 157951-07-0P | 157951-08-1P |
|   | 157951-09-2P        | 157951-10-5P  | 157951-11-6P          | 162468-74-8P | 162468-82-8P |
|   | 162468-83-9P        | 168133-31-1P  | 168976-22-5P          | 168976-23-6P | 168976-24-7P |
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|   | 170167-69-8P        | 170167-70-1P  | 170167-71-2P          | 170167-72-3P | 170167-73-4P |
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|   | 170960-31-3P        | 180207-57-2P, | 1H-Pyrazole-4-ethanol | 181185-05-7P |              |
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|   | 208999-82-0P        | 211256-75-6P  | 211256-76-7P          | 211256-77-8P | 217312-94-2P |
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|   | 591234-05-8P        | 591234-06-9P  |                       |              |              |
| RL: SPN (Synthetic preparation); PREP (Preparation)   |                     |               |                       |              |              |
| (review of prepn. of pyrazoles via cyclization, ring transformation, aromatization and substituent modifications) |                     |               |                       |              |              |
| IT  | 591234-07-0P        | 591234-10-5P  | 591234-13-8P          | 591234-14-9P | 591234-16-1P |
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|   | 591234-25-2P        | 591234-29-6P  | 591234-30-9P          | 591234-32-1P | 591234-33-2P |
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591234-39-8P **591234-40-1P** 591234-44-5P 591234-48-9P  
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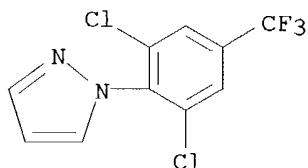
RL: SPN (Synthetic preparation); PREP (Preparation)  
 (review of prepn. of pyrazoles via cyclization, ring transformation,  
 aromatization and substituent modifications)

IT **106204-56-2 591235-74-4**

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (review of prepn. of pyrazoles via cyclization, ring transformation,  
 aromatization and substituent modifications)

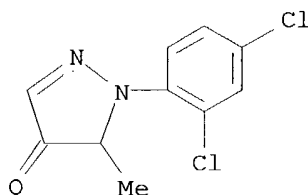
RN 106204-56-2 HCAPLUS

CN 1H-Pyrazole, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 591235-74-4 HCAPLUS

CN 4H-Pyrazol-4-one, 1-(2,4-dichlorophenyl)-1,5-dihydro-5-methyl- (9CI) (CA INDEX NAME)

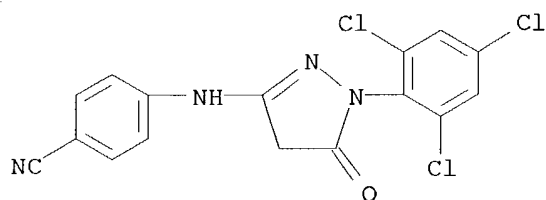


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 100553-84-2P 101309-64-2P 101309-65-3P  
 101309-66-4P 106204-45-9P 106367-54-8P  
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RL: SPN (Synthetic preparation); PREP (Preparation)  
 (review of prepn. of pyrazoles via cyclization, ring transformation,  
 aromatization and substituent modifications)

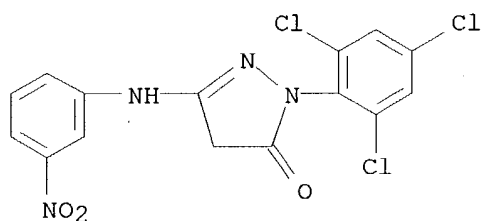
RN 3181-98-4 HCAPLUS

CN Benzonitrile, 4-[[4,5-dihydro-5-oxo-1-(2,4,6-trichlorophenyl)-1H-pyrazol-3-yl]amino]- (9CI) (CA INDEX NAME)



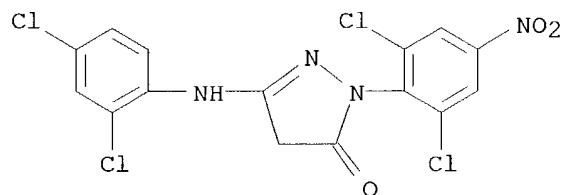
RN 3182-01-2 HCAPLUS

CN 3H-Pyrazol-3-one, 2,4-dihydro-5-[(3-nitrophenyl)amino]-2-(2,4,6-trichlorophenyl)- (9CI) (CA INDEX NAME)



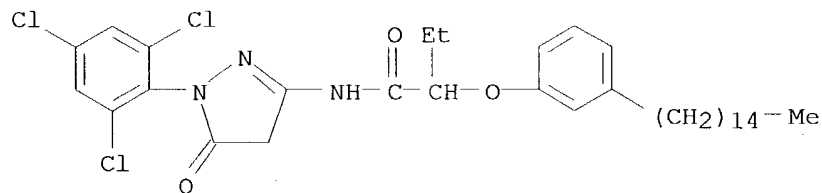
RN 3182-03-4 HCAPLUS

CN 3H-Pyrazol-3-one, 2-(2,6-dichloro-4-nitrophenyl)-5-[(2,4-dichlorophenyl)amino]-2,4-dihydro- (9CI) (CA INDEX NAME)



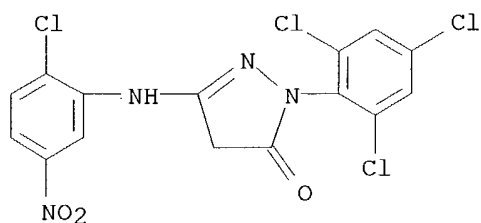
RN 14230-56-9 HCAPLUS

CN Butanamide, N-[4,5-dihydro-5-oxo-1-(2,4,6-trichlorophenyl)-1H-pyrazol-3-yl]-2-(3-pentadecylphenoxy)- (9CI) (CA INDEX NAME)

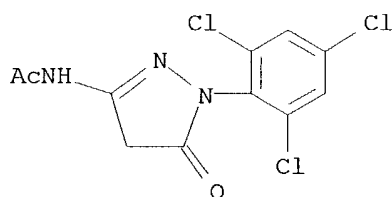


RN 30707-68-7 HCAPLUS

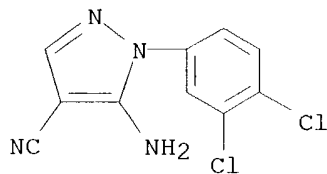
CN 3H-Pyrazol-3-one, 5-[(2-chloro-5-nitrophenyl)amino]-2,4-dihydro-2-(2,4,6-trichlorophenyl)- (9CI) (CA INDEX NAME)



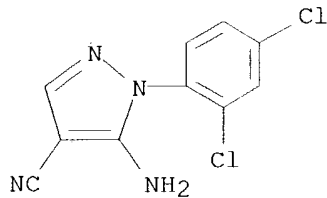
RN 52472-98-7 HCAPLUS

CN Acetamide, N-[4,5-dihydro-5-oxo-1-(2,4,6-trichlorophenyl)-1H-pyrazol-3-yl]-  
(9CI) (CA INDEX NAME)

RN 58791-78-9 HCAPLUS

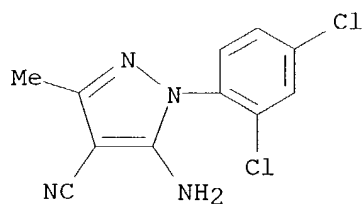
CN 1H-Pyrazole-4-carbonitrile, 5-amino-1-(3,4-dichlorophenyl)- (9CI) (CA  
INDEX NAME)

RN 58791-79-0 HCAPLUS

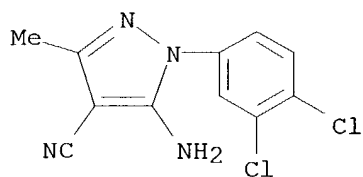
CN 1H-Pyrazole-4-carbonitrile, 5-amino-1-(2,4-dichlorophenyl)- (9CI) (CA  
INDEX NAME)

RN 58791-83-6 HCAPLUS

CN 1H-Pyrazole-4-carbonitrile, 5-amino-1-(2,4-dichlorophenyl)-3-methyl- (9CI)  
(CA INDEX NAME)

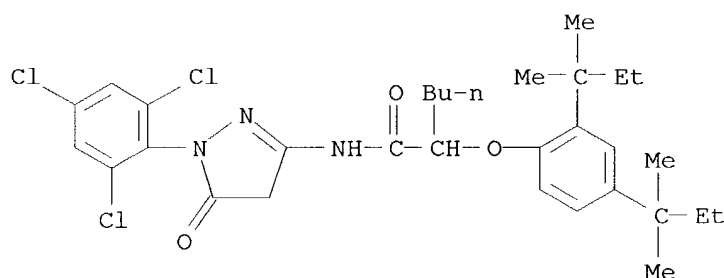


RN 58791-84-7 HCAPLUS

CN 1H-Pyrazole-4-carbonitrile, 5-amino-1-(3,4-dichlorophenyl)-3-methyl- (9CI)  
(CA INDEX NAME)

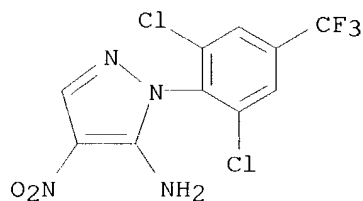
RN 84104-31-4 HCAPLUS

CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4,5-dihydro-5-oxo-1-(2,4,6-trichlorophenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



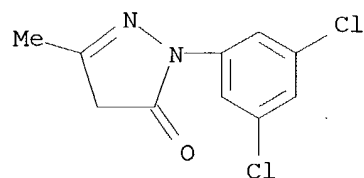
RN 99662-11-0 HCAPLUS

CN 1H-Pyrazol-5-amine, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-nitro- (9CI) (CA INDEX NAME)

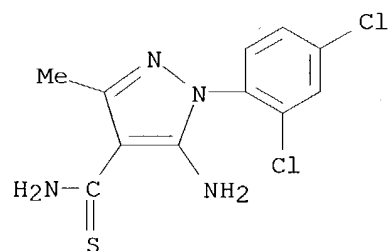


RN 100553-84-2 HCAPLUS

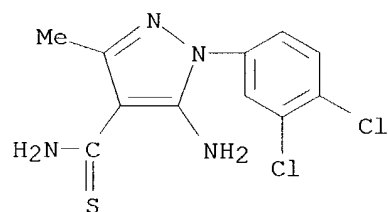
CN 3H-Pyrazol-3-one, 2-(3,5-dichlorophenyl)-2,4-dihydro-5-methyl- (9CI) (CA INDEX NAME)



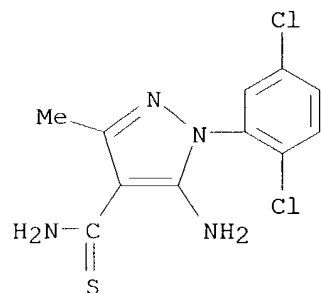
RN 101309-64-2 HCAPLUS

CN 1H-Pyrazole-4-carbothioamide, 5-amino-1-(2,4-dichlorophenyl)-3-methyl-  
(9CI) (CA INDEX NAME)

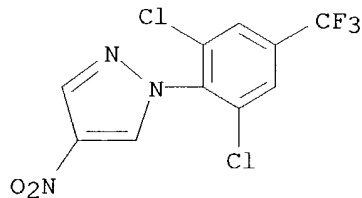
RN 101309-65-3 HCAPLUS

CN 1H-Pyrazole-4-carbothioamide, 5-amino-1-(3,4-dichlorophenyl)-3-methyl-  
(9CI) (CA INDEX NAME)

RN 101309-66-4 HCAPLUS

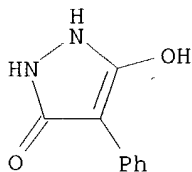
CN 1H-Pyrazole-4-carbothioamide, 5-amino-1-(2,5-dichlorophenyl)-3-methyl-  
(9CI) (CA INDEX NAME)

RN 106204-45-9 HCAPLUS

CN 1H-Pyrazole, 1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-nitro- (9CI)  
(CA INDEX NAME)

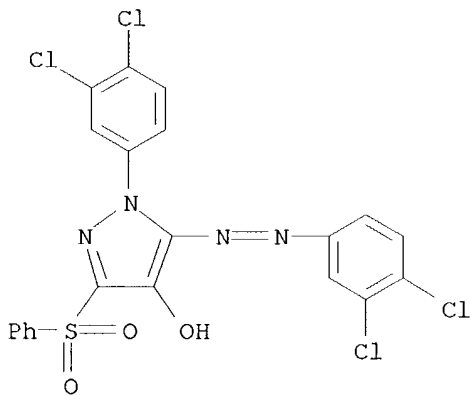
RN 106367-54-8 HCAPLUS

CN 3H-Pyrazol-3-one, 1,2-dihydro-5-hydroxy-4-phenyl- (9CI) (CA INDEX NAME)



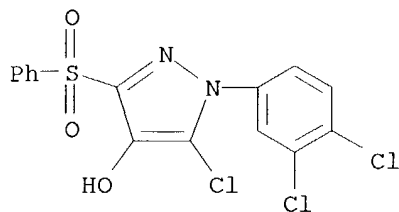
RN 119293-30-0 HCAPLUS

CN 1H-Pyrazol-4-ol, 1-(3,4-dichlorophenyl)-5-[(3,4-dichlorophenyl)azo]-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



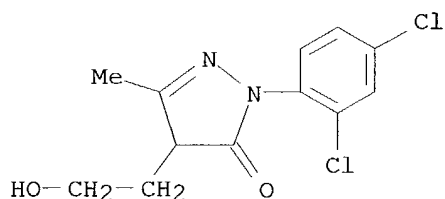
RN 155106-04-0 HCAPLUS

CN 1H-Pyrazol-4-ol, 5-chloro-1-(3,4-dichlorophenyl)-3-(phenylsulfonyl)- (9CI)  
(CA INDEX NAME)



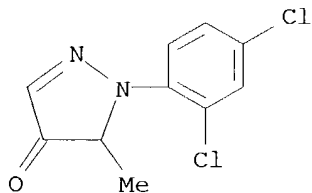
RN 591234-40-1 HCAPLUS

CN 3H-Pyrazol-3-one, 2-(2,4-dichlorophenyl)-2,4-dihydro-4-(2-hydroxyethyl)-5-methyl- (9CI) (CA INDEX NAME)



RN 591234-63-8 HCAPLUS

CN 4H-Pyrazol-4-one, 1-(2,4-dichlorophenyl)-1,5-dihydro-5-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

REFERENCE COUNT: 909 THERE ARE 909 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:185731 HCAPLUS

DOCUMENT NUMBER: 134:222711

TITLE: Preparation of 3-alkoxy-5-oxo-4-phenylpyrazolines as herbicides

INVENTOR(S): Maetzke, Thomas; Wendeborn, Sebastian; Stoller, Andre

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--|------|----------|-----------------|----------|
| WO 2001017973  | A2   | 20010315 | WO 2000-EP8657  | 20000905 |
| WO 2001017973  | A3   | 20010510 |                 |          |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM<br>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG<br>EP 1230245 A2 20020814 EP 2000-964108 20000905<br>R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL<br>PRIORITY APPLN. INFO.: CH 1999-1644 A 19990907<br>WO 2000-EP8657 W 20000905<br>OTHER SOURCE(S): MARPAT 134:222711<br>AB Title compds. [I; R1, R3 = H, halo, NO2, amino, cyano, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, PhCH2, etc.; R2 = (substituted) Ph, naphthyl, heteroaryl; R4, R5 = H, alkyl, haloalkyl, hydroxyalkyl, alkenyl, alkynyl, alkoxyalkyl, alkyl, alkylthioalkyl, cycloalkyl, halocycloalkyl, Ph, etc.; R4R5 = atoms to form a (substituted) 5-8 membered ring; G = H, CX1R30, CX2X3R31, SO2R34, alkali metal, alk. earth metal, sulfonium, ammonium, etc.; X1, X2, X3 = O, S; R30, R31, R34 = H, (substituted) alkyl, cycloalkyl, etc.], were prepd. Thus, di-Me (4-bromo-2,6-dimethylphenyl)malonate (prepn. from 4-bromo-2,6-dimethylaniline given), hexahydro-1,4,5-oxadiazepine (prepn. given), and Et3N were heated 4 h at 140.degree. in xylene to give intermediate I (R1, R3 = Me; R2 = Br; G = H; R4R5 = CH2CH2OCH2CH2). II was converted in several steps to title compd. I (R1, R3 = Me; R2 = Ph; G = COCMe3; R4R5 = CH2CH2OCH2CH2). Several I at 500 ppm postemergent gave 70-100% control of Avena, Lolium, Setaria, and Sinapis.<br>IC ICM C07D231-00<br>CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))<br>Section cross-reference(s): 5<br>IT <b>Herbicides</b><br>(prepn. of alkoxyphenyloxopyrazolines as herbicides)<br>IT 314020-51-4P 329704-60-1P 329704-62-3P<br>329704-64-5P 329704-66-7P 329704-68-9P<br>329704-70-3P 329704-72-5P 329704-74-7P<br>329704-76-9P 329704-78-1P 329704-80-5P<br>329704-82-7P 329704-84-9P 329704-86-1P<br>329704-88-3P 329704-90-7P 329704-92-9P<br>329704-94-1P 329704-96-3P 329704-98-5P<br>329705-00-2P 329705-02-4P 329705-04-6P<br>329705-06-8P 329705-08-0P 329705-10-4P<br>329705-12-6P 329705-14-8P 329705-17-1P<br>329705-19-3P 329705-20-6P 329705-22-8P<br>329705-24-0P 329705-26-2P 329705-28-4P<br>329705-30-8P 329705-32-0P 329705-34-2P<br>329705-36-4P 329705-38-6P 329705-40-0P<br>329705-43-3P 329705-44-4P 329705-46-6P |      |          |                 |          |



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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of alkoxyphenyloxopyrazolines as **herbicides**)

IT 186748-52-7P 186748-57-2P 186748-66-3P 204706-70-7P 329704-14-5P  
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

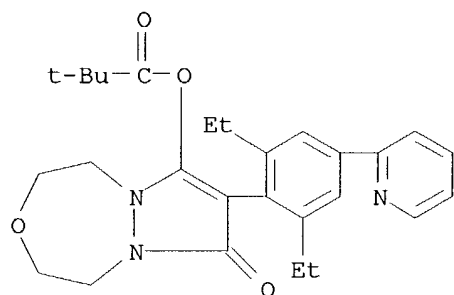
(prepn. of alkoxyphenyloxopyrazolines as **herbicides**)  
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of alkoxyphenyloxopyrazolines as **herbicides**)

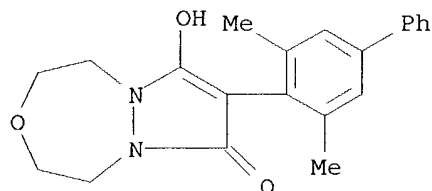
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CN Propanoic acid, 2,2-dimethyl-, 8-[2,6-diethyl-4-(2-pyridinyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



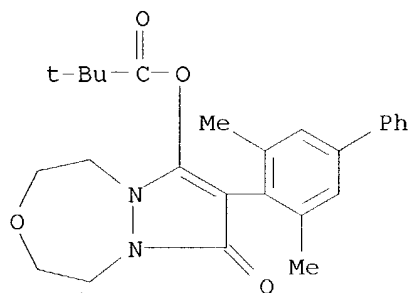
RN 329704-60-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



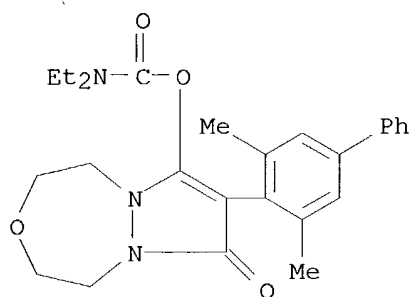
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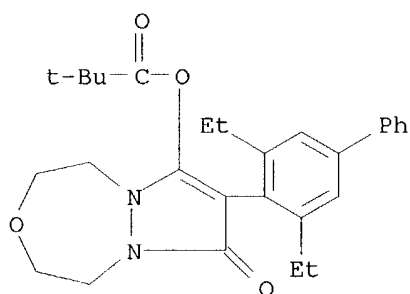
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CN Carbamic acid, diethyl-, 8-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



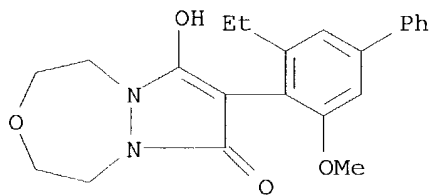
RN 329704-66-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



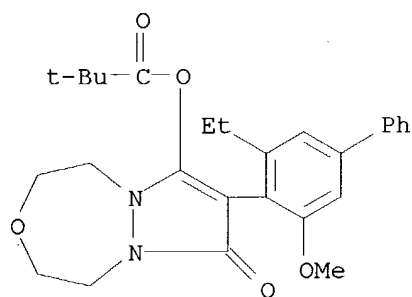
RN 329704-68-9 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



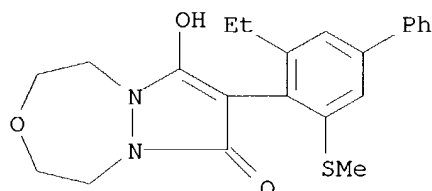
RN 329704-70-3 HCAPLUS

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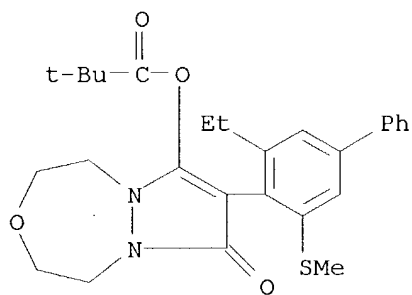
RN 329704-72-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[3-ethyl-5-(methylthio)[1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



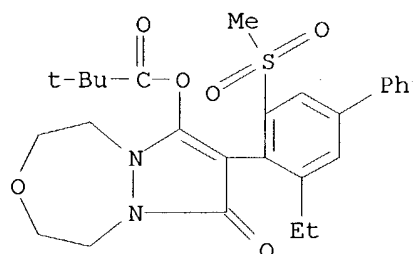
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CN Propanoic acid, 2,2-dimethyl-, 8-[3-ethyl-5-(methylthio)[1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



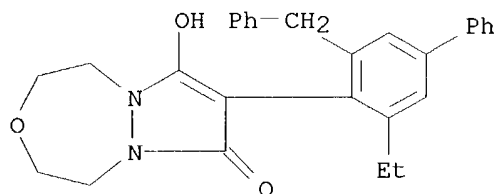
RN 329704-76-9 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[3-ethyl-5-(methylsulfonyl)[1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



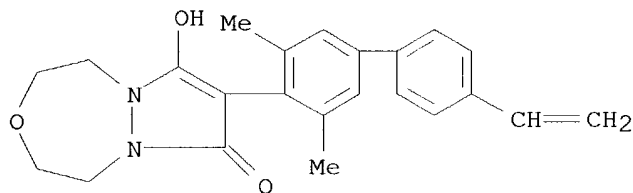
RN 329704-78-1 HCAPLUS

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(CA INDEX NAME)



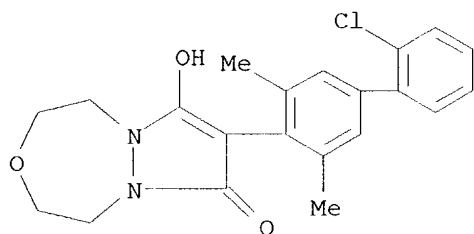
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CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



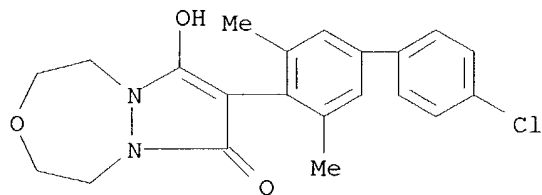
RN 329704-82-7 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



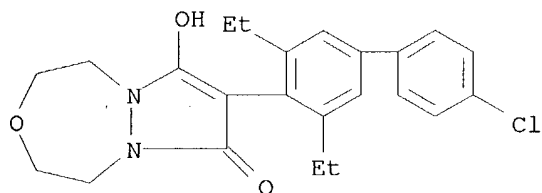
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CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(4'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



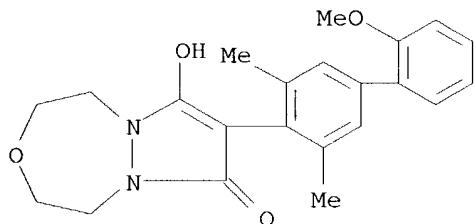
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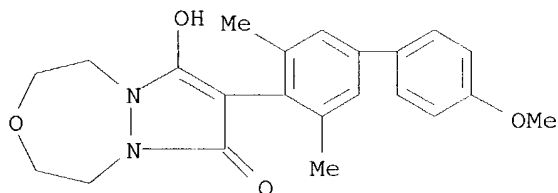
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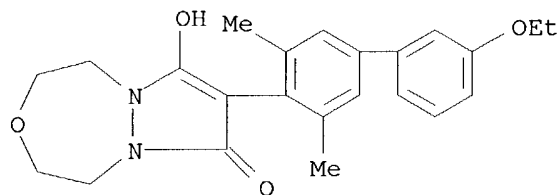
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CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 1,2,4,5-tetrahydro-9-hydroxy-8-(4'-methoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)- (9CI) (CA INDEX NAME)



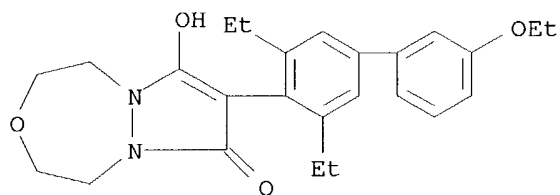
RN 329704-92-9 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(3'-ethoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



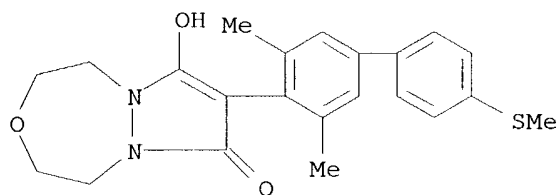
RN 329704-94-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(3'-ethoxy-3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



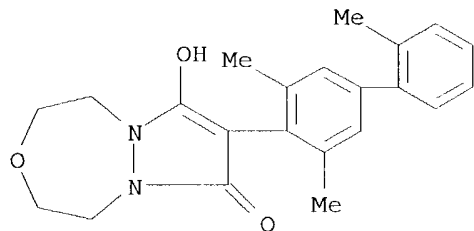
RN 329704-96-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[3,5-dimethyl-4'-(methylthio)[1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 329704-98-5 HCAPLUS

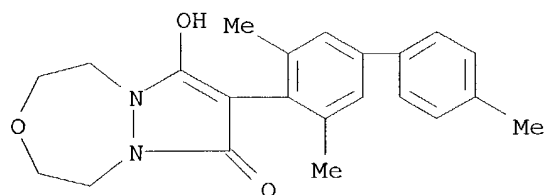
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 1,2,4,5-tetrahydro-9-hydroxy-8-(2',3,5-trimethyl[1,1'-biphenyl]-4-yl)- (9CI) (CA INDEX NAME)





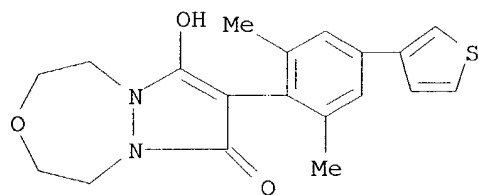
RN 329705-00-2 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 1,2,4,5-tetrahydro-9-hydroxy-8-(3,4',5-trimethyl[1,1'-biphenyl]-4-yl)- (9CI) (CA INDEX NAME)



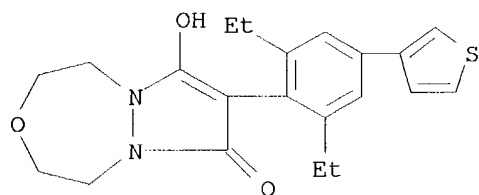
RN 329705-02-4 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-dimethyl-4-(3-thienyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



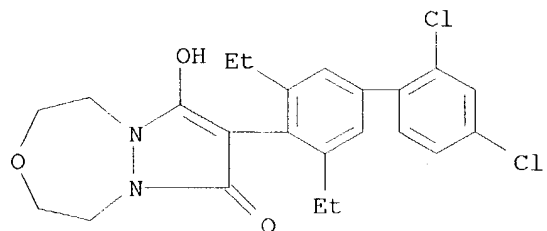
RN 329705-04-6 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-diethyl-4-(3-thienyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



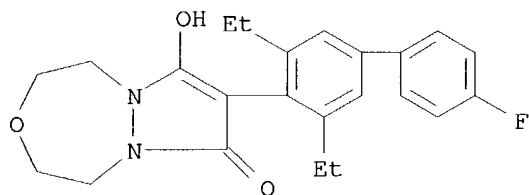
RN 329705-06-8 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2',4'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



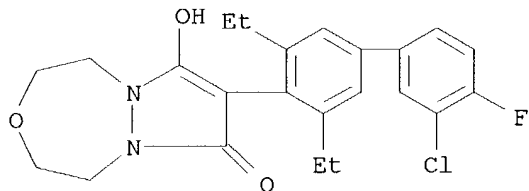
RN 329705-08-0 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



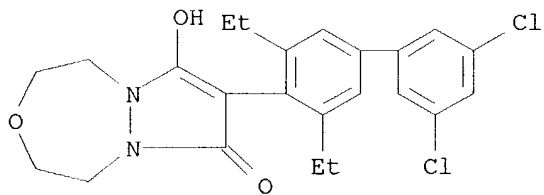
RN 329705-10-4 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(3'-chloro-3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



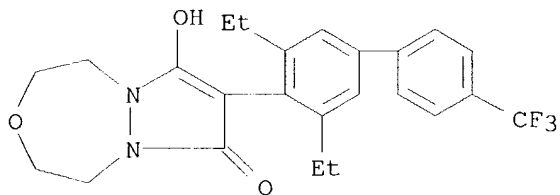
RN 329705-12-6 HCAPLUS

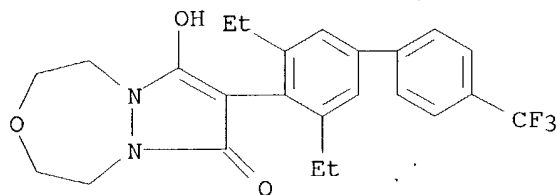
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(3',5'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 329705-14-8 HCAPLUS

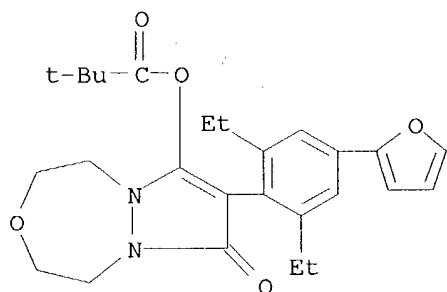
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[3,5-diethyl-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)





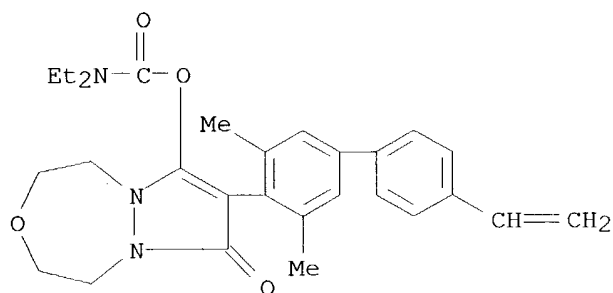
RN 329705-17-1 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,6-diethyl-4-(2-furanyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



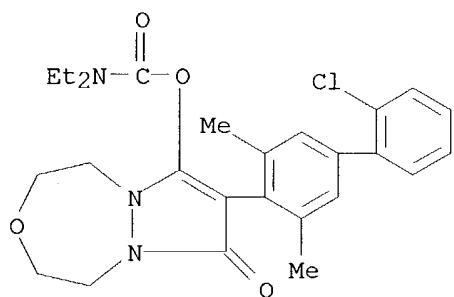
RN 329705-19-3 HCAPLUS

CN Carbamic acid, diethyl-, 8-(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



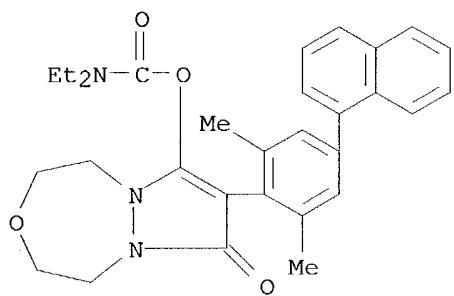
RN 329705-20-6 HCAPLUS

CN Carbamic acid, diethyl-, 8-(2'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



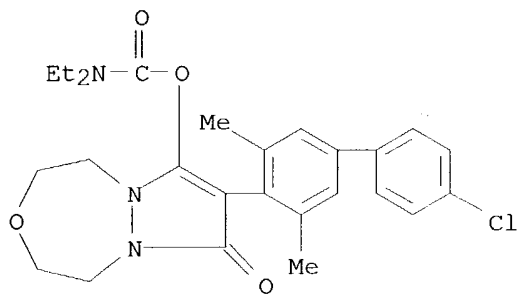
RN 329705-22-8 HCAPLUS

CN Carbamic acid, diethyl-, 8-[2,6-dimethyl-4-(1-naphthalenyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



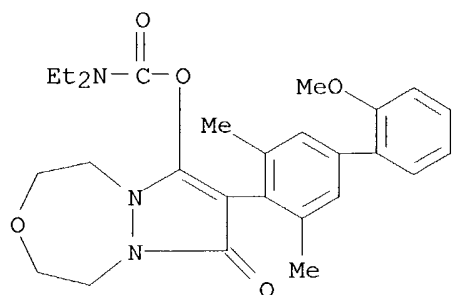
RN 329705-24-0 HCAPLUS

CN Carbamic acid, diethyl-, 8-(4'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



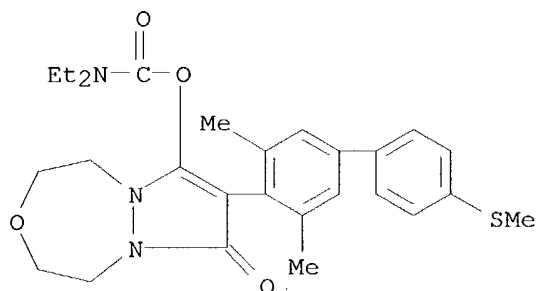
RN 329705-26-2 HCAPLUS

CN Carbamic acid, diethyl-, 1,2,4,5-tetrahydro-8-(2'-methoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



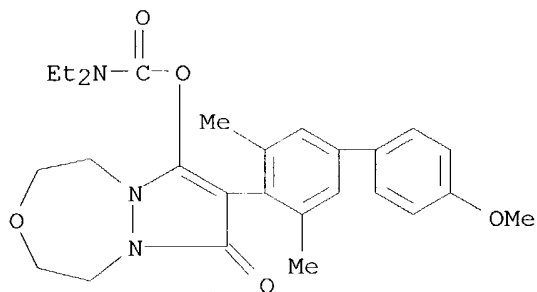
RN 329705-28-4 HCAPLUS

CN Carbamic acid, diethyl-, 8-[3,5-dimethyl-4'-(methylthio)[1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



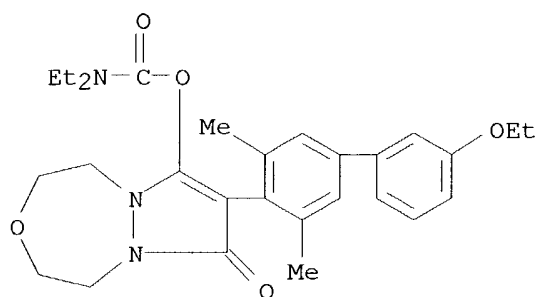
RN 329705-30-8 HCAPLUS

CN Carbamic acid, diethyl-, 1,2,4,5-tetrahydro-8-(4'-methoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



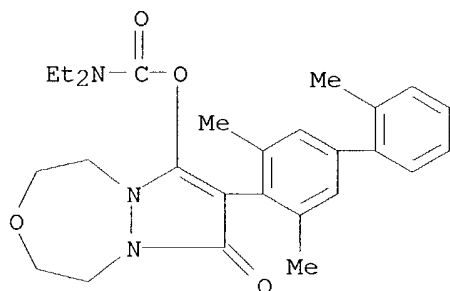
RN 329705-32-0 HCAPLUS

CN Carbamic acid, diethyl-, 8-(3'-methoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



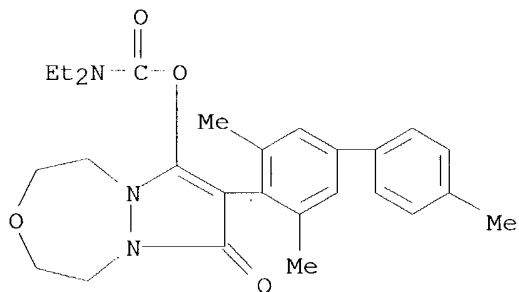
RN 329705-34-2 HCAPLUS

CN Carbamic acid, diethyl-, 1,2,4,5-tetrahydro-7-oxo-8-(2',3,5-trimethyl[1,1'-biphenyl]-4-yl)-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



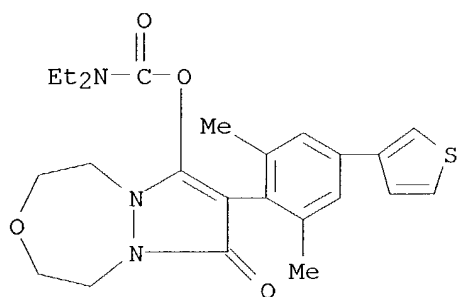
RN 329705-36-4 HCAPLUS

CN Carbamic acid, diethyl-, 1,2,4,5-tetrahydro-7-oxo-8-(3,4',5-trimethyl[1,1'-biphenyl]-4-yl)-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



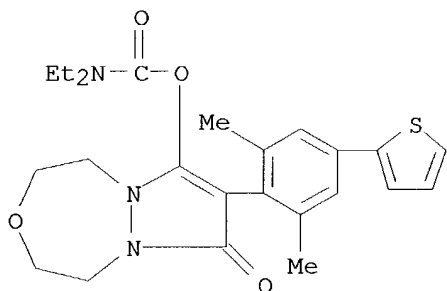
RN 329705-38-6 HCAPLUS

CN Carbamic acid, diethyl-, 8-[2,6-dimethyl-4-(3-thienyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



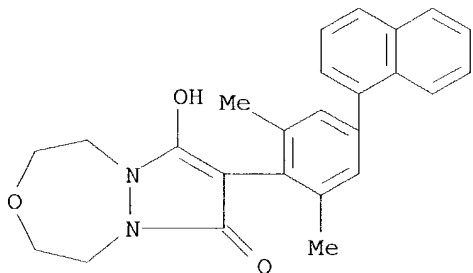
RN 329705-40-0 HCAPLUS

CN Carbamic acid, diethyl-, 8-[2,6-dimethyl-4-(2-thienyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



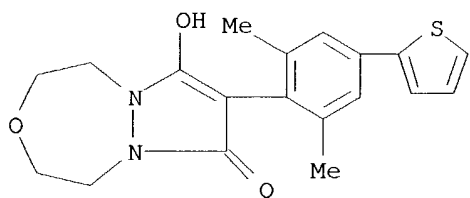
RN 329705-43-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-dimethyl-4-(1-naphthalenyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



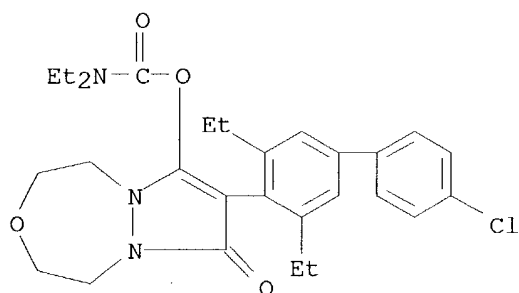
RN 329705-44-4 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-dimethyl-4-(2-thienyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



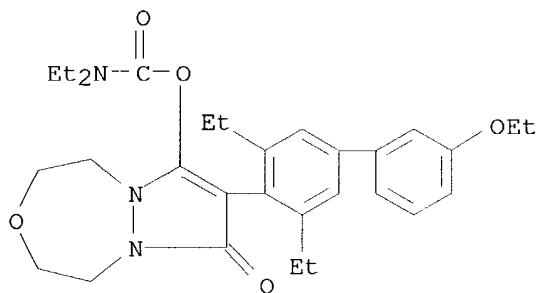
RN 329705-46-6 HCAPLUS

CN Carbamic acid, diethyl-, 8-(4'-chloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



RN 329705-48-8 HCAPLUS

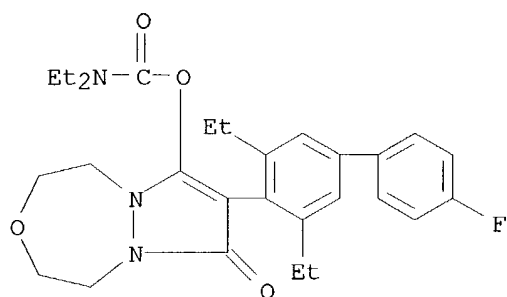
CN Carbamic acid, diethyl-, 8-(3'-ethoxy-3,5-diethyl[1,1'-biphenyl]-4-yl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



RN 329705-50-2 HCAPLUS

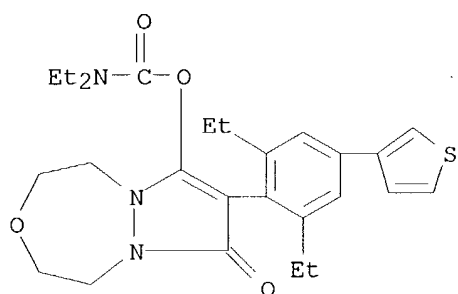
CN Carbamic acid, diethyl-, 8-(3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)





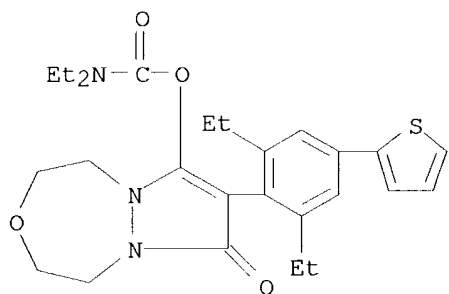
RN 329705-52-4 HCAPLUS

CN Carbamic acid, diethyl-, 8-[2,6-diethyl-4-(3-thienyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



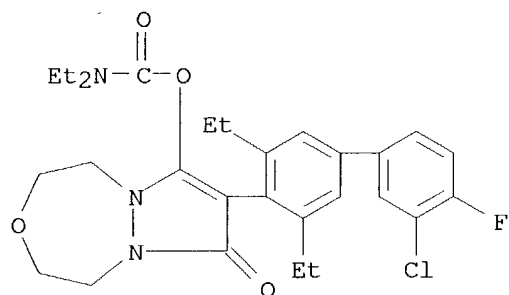
RN 329705-54-6 HCAPLUS

CN Carbamic acid, diethyl-, 8-[2,6-diethyl-4-(2-thienyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



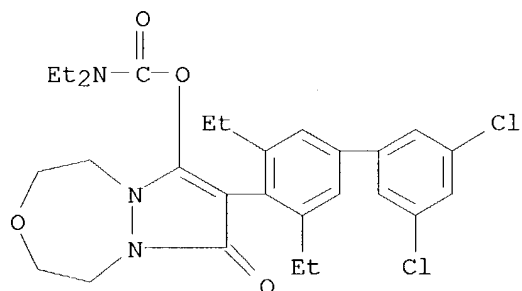
RN 329705-56-8 HCAPLUS

CN Carbamic acid, diethyl-, 8-(3'-chloro-3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



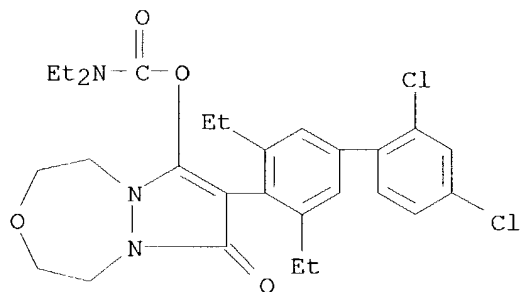
RN 329705-58-0 HCAPLUS

CN Carbamic acid, diethyl-, 8-(3',5'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



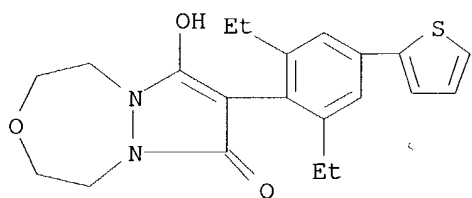
RN 329705-60-4 HCAPLUS

CN Carbamic acid, diethyl-, 8-(2',4'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



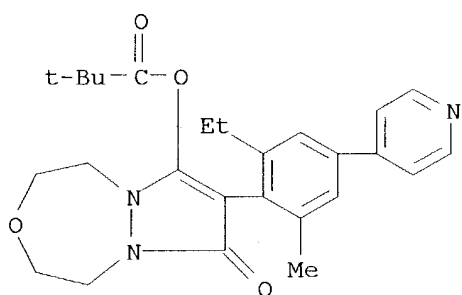
RN 329705-62-6 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-diethyl-4-(2-thienyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



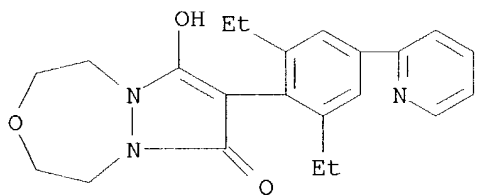
RN 329705-64-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2-ethyl-6-methyl-4-(4-pyridinyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



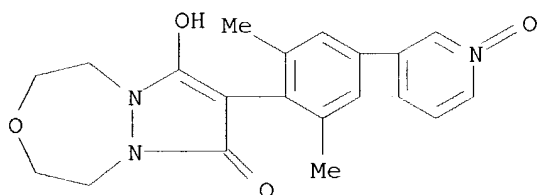
RN 329705-67-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-diethyl-4-(2-pyridinyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 329705-69-3 HCAPLUS

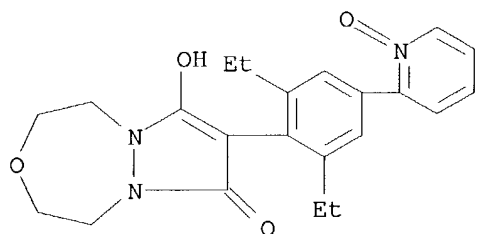
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-dimethyl-4-(1-oxido-3-pyridinyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 329705-71-7 HCAPLUS

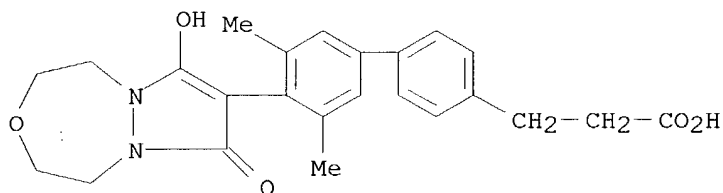
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,6-diethyl-4-(1-oxido-2-pyridinyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)

pyridinyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



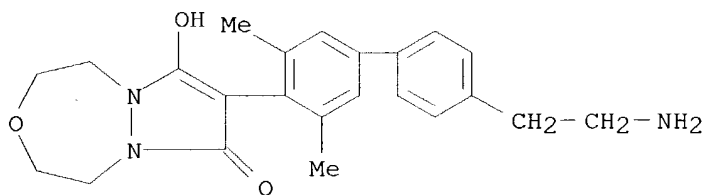
RN 329705-73-9 HCAPLUS

CN [1,1'-Biphenyl]-4-propanoic acid, 3',5'-dimethyl-4'-(1,2,4,5-tetrahydro-9-hydroxy-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-8-yl)- (9CI) (CA INDEX NAME)



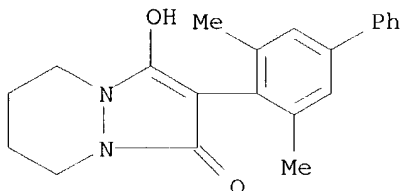
RN 329705-75-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[4'-(2-aminoethyl)-3,5-dimethyl[1,1'-biphenyl]-4-yl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



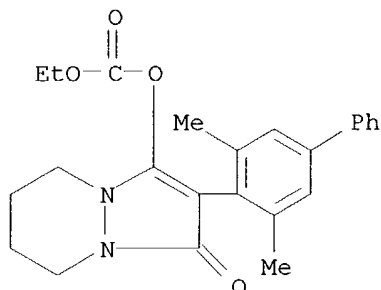
RN 329705-77-3 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



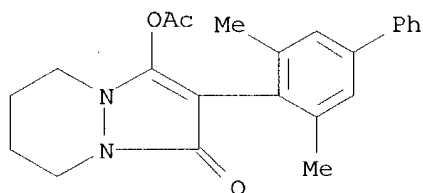
RN 329705-79-5 HCAPLUS

CN Carbonic acid, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ethyl ester (9CI) (CA INDEX NAME)



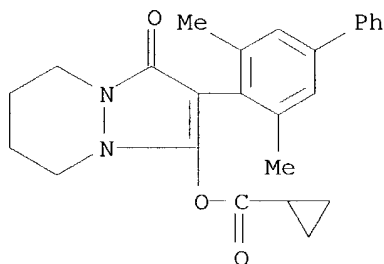
RN 329705-80-8 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 3-(acetyloxy)-2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



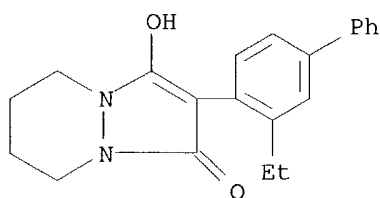
RN 329705-82-0 HCAPLUS

CN Cyclopropanecarboxylic acid, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



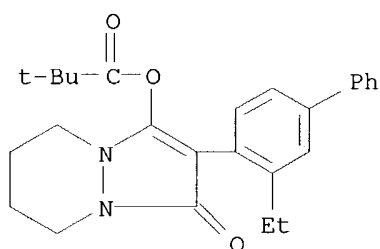
RN 329705-84-2 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3-ethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



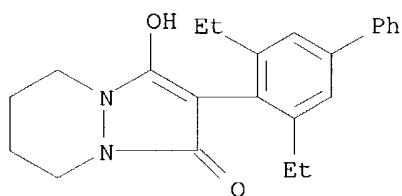
RN 329705-86-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3-ethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



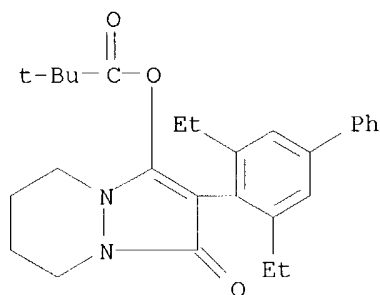
RN 329705-88-6 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



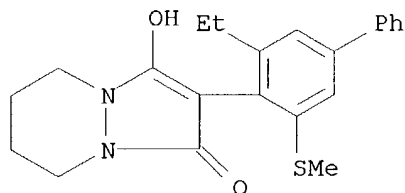
RN 329705-90-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



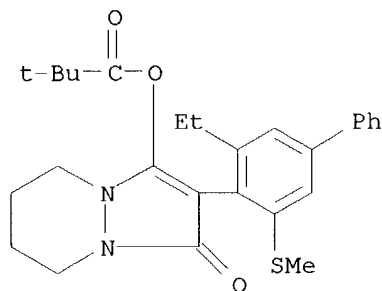
RN 329705-92-2 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3-ethyl-5-(methylthio)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



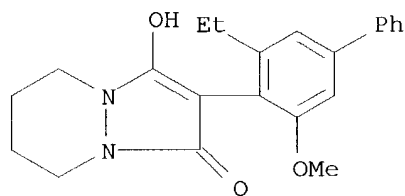
RN 329705-94-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[3-ethyl-5-(methylthio)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



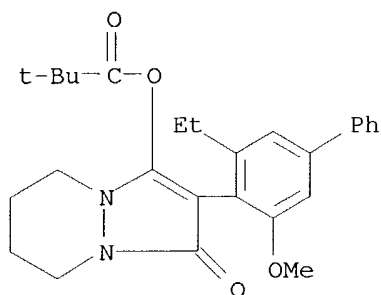
RN 329705-96-6 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



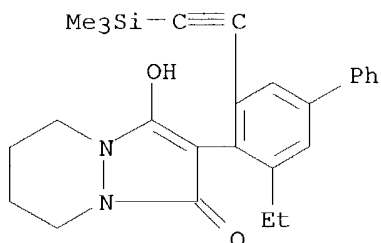
RN 329705-98-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



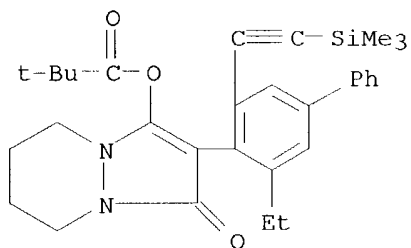
RN 329706-00-5 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3-ethyl-5-  
[(trimethylsilyl)ethynyl][1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-  
hydroxy- (9CI) (CA INDEX NAME)



RN 329706-02-7 HCAPLUS

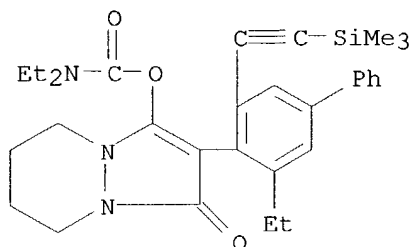
CN Propanoic acid, 2,2-dimethyl-, 2-[3-ethyl-5-[(trimethylsilyl)ethynyl][1,1'-  
biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl  
ester (9CI) (CA INDEX NAME)



RN 329706-04-9 HCAPLUS

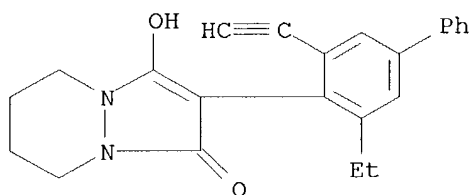
CN Carbamic acid, diethyl-, 2-[3-ethyl-5-[(trimethylsilyl)ethynyl][1,1'-  
biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl  
ester (9CI) (CA INDEX NAME)





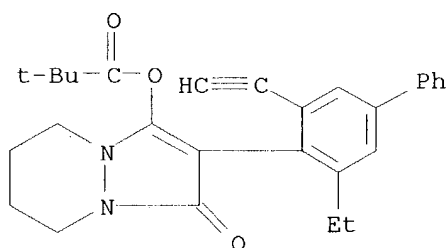
RN 329706-06-1 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3-ethyl-5-ethynyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



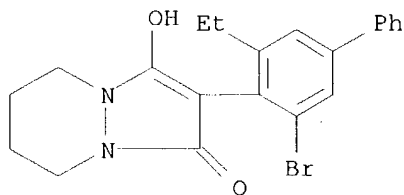
RN 329706-08-3 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3-ethyl-5-ethynyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



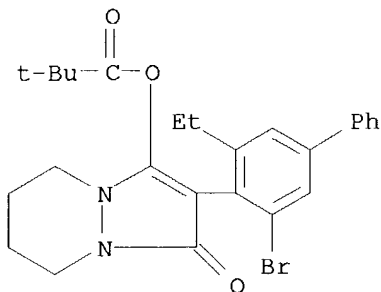
RN 329706-09-4 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3-bromo-5-ethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



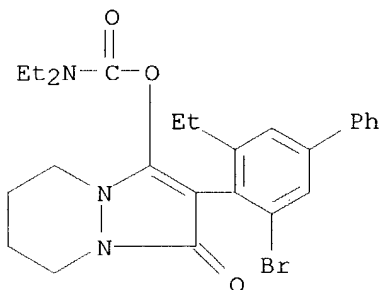
RN 329706-11-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3-bromo-5-ethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



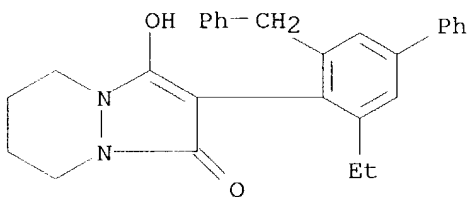
RN 329706-13-0 HCAPLUS

CN Carbamic acid, diethyl-, 2-(3-bromo-5-ethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



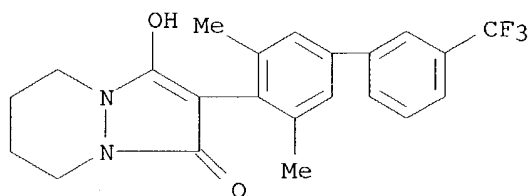
RN 329706-15-2 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3-ethyl-5-(phenylmethyl)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



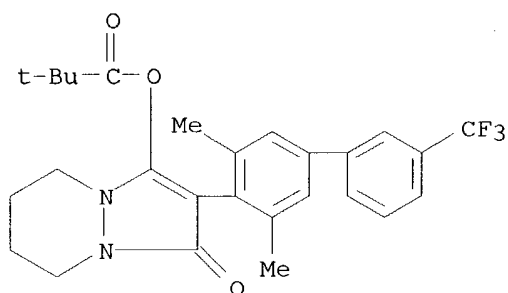
RN 329706-17-4 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3,5-dimethyl-3'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



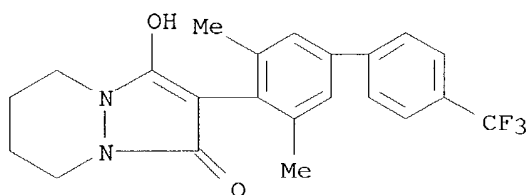
RN 329706-19-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[3,5-dimethyl-3'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



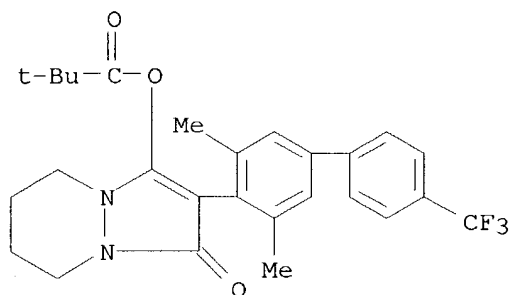
RN 329706-21-0 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3,5-dimethyl-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



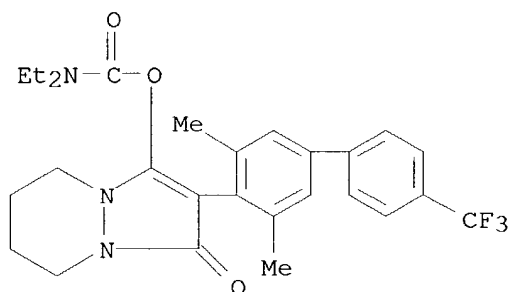
RN 329706-23-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[3,5-dimethyl-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



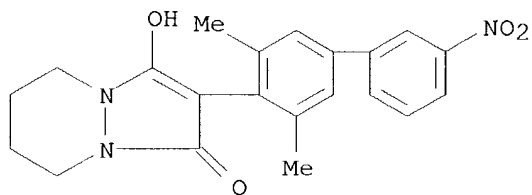
RN 329706-25-4 HCAPLUS

CN Carbamic acid, diethyl-, 2-[3,5-dimethyl-4'-(trifluoromethyl)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



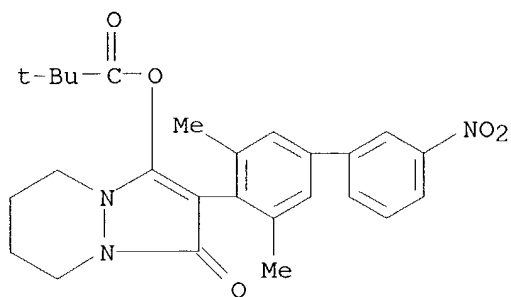
RN 329706-27-6 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3,5-dimethyl-3'-nitro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



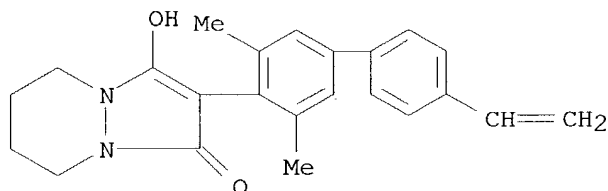
RN 329706-29-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3,5-dimethyl-3'-nitro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



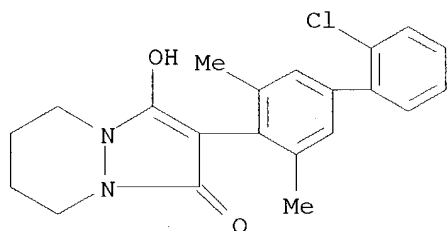
RN 329706-31-2 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



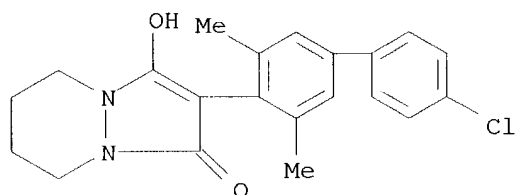
RN 329706-33-4 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329706-35-6 HCAPLUS

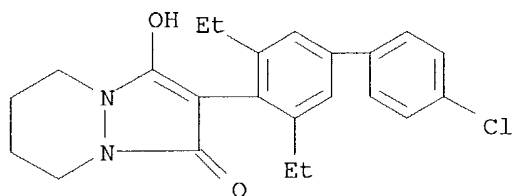
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(4'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329706-37-8 HCAPLUS

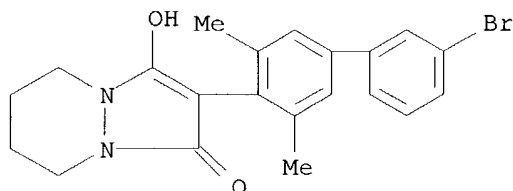
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(4'-chloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)

4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



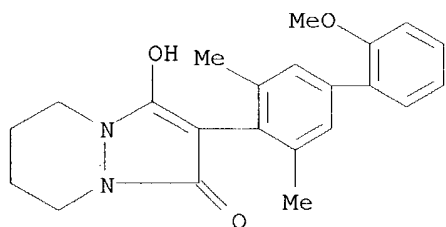
RN 329706-39-0 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3'-bromo-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



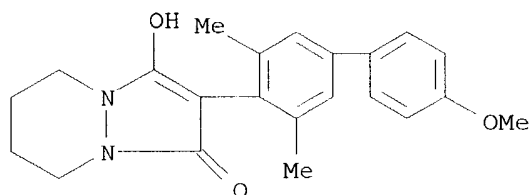
RN 329706-41-4 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(2'-methoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)- (9CI) (CA INDEX NAME)



RN 329706-43-6 HCAPLUS

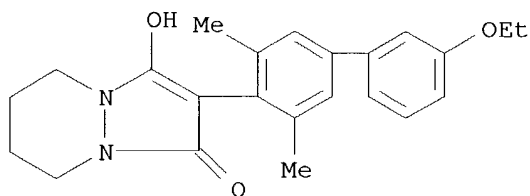
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(4'-ethoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)- (9CI) (CA INDEX NAME)



RN 329706-45-8 HCAPLUS

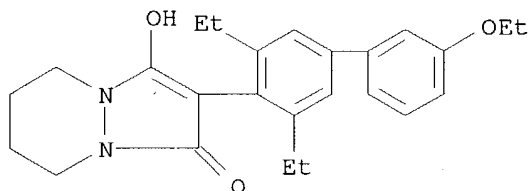
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3'-ethoxy-3,5-dimethyl[1,1'-

biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



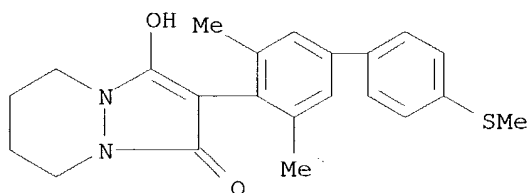
RN 329706-47-0 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3'-ethoxy-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



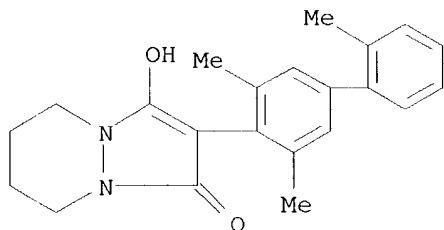
RN 329706-49-2 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[3,5-dimethyl-4'-(methylthio)[1,1'-biphenyl]-4-yl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329706-51-6 HCAPLUS

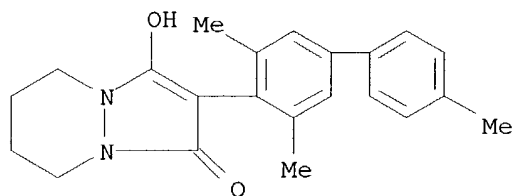
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(2',3,5-trimethyl[1,1'-biphenyl]-4-yl)- (9CI) (CA INDEX NAME)



RN 329706-53-8 HCAPLUS

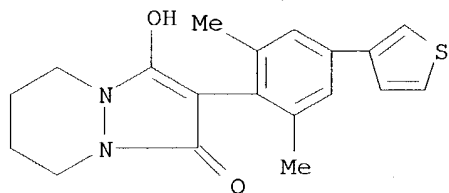
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(3,4',5-

trimethyl[1,1'-biphenyl]-4-yl)- (9CI) (CA INDEX NAME)



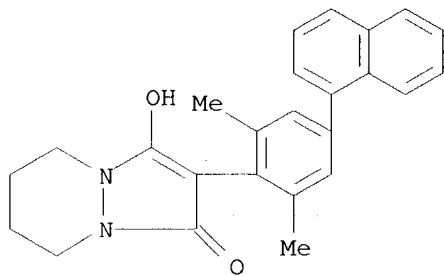
RN 329706-55-0 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[2,6-dimethyl-4-(3-thienyl)phenyl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



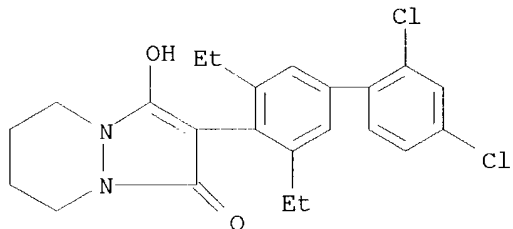
RN 329706-57-2 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[2,6-dimethyl-4-(1-naphthalenyl)phenyl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329706-59-4 HCAPLUS

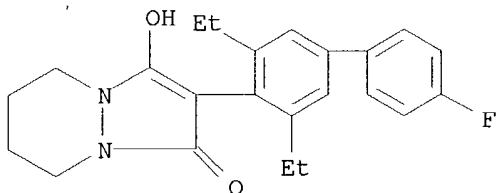
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2',4'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)





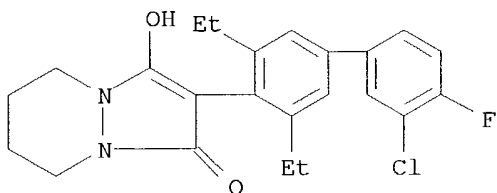
RN 329706-61-8 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



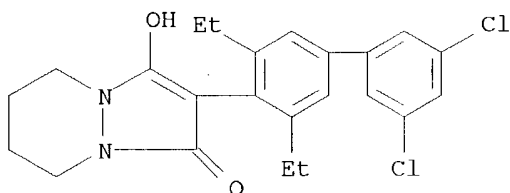
RN 329706-63-0 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3'-chloro-3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



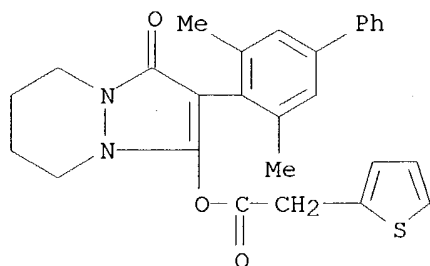
RN 329706-65-2 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(3',5'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



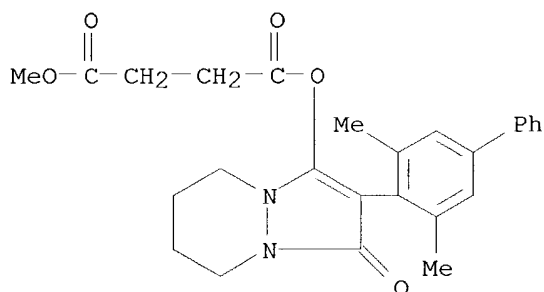
RN 329706-68-5 HCAPLUS

CN 2-Thiopheneacetic acid, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



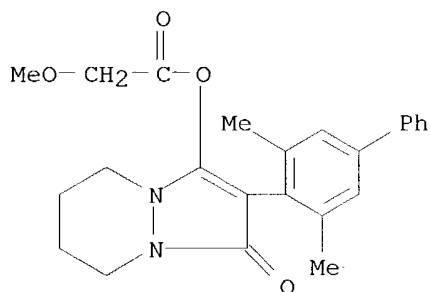
RN 329706-70-9 HCAPLUS

CN Butanedioic acid, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl methyl ester (9CI) (CA INDEX NAME)



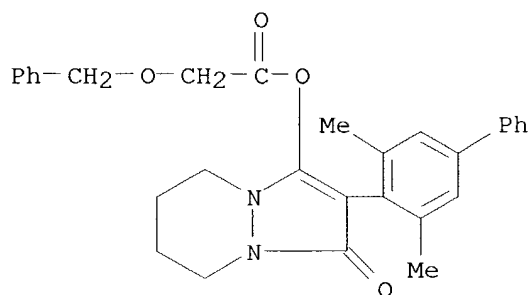
RN 329706-72-1 HCAPLUS

CN Acetic acid, methoxy-, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



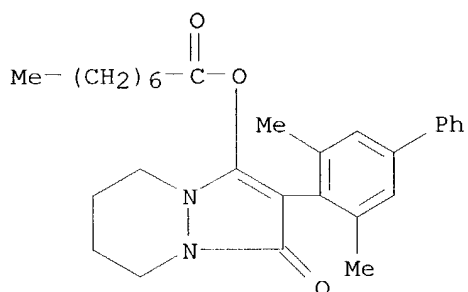
RN 329706-74-3 HCAPLUS

CN Acetic acid, (phenylmethoxy)-, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



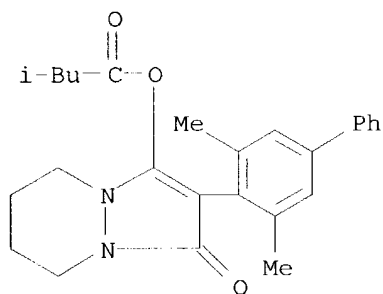
RN 329706-76-5 HCAPLUS

CN Octanoic acid, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



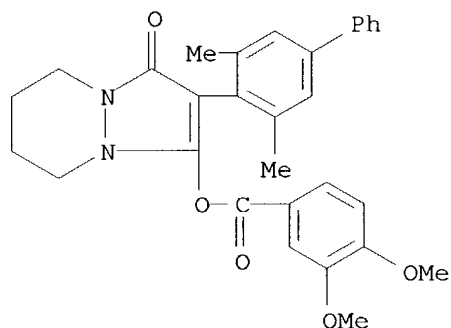
RN 329706-78-7 HCAPLUS

CN Butanoic acid, 3-methyl-, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



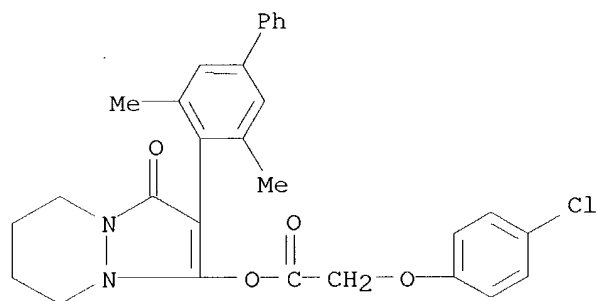
RN 329706-80-1 HCAPLUS

CN Benzoic acid, 3,4-dimethoxy-, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



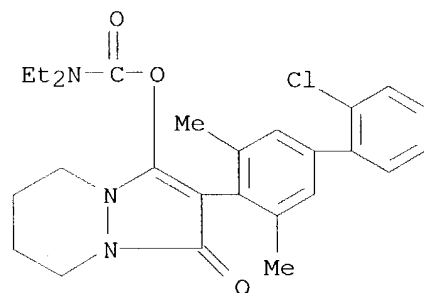
RN 329706-82-3 HCAPLUS

CN Acetic acid, (4-chlorophenoxy)-, 2-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



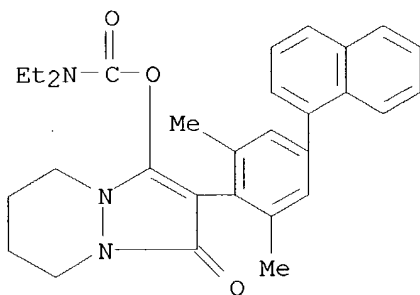
RN 329706-84-5 HCAPLUS

CN Carbamic acid, diethyl-, 2-(2'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



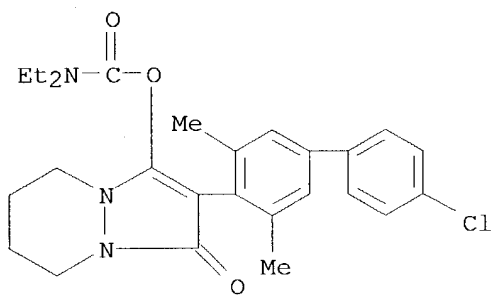
RN 329706-86-7 HCAPLUS

CN Carbamic acid, diethyl-, 2-[2,6-dimethyl-4-(1-naphthalenyl)phenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



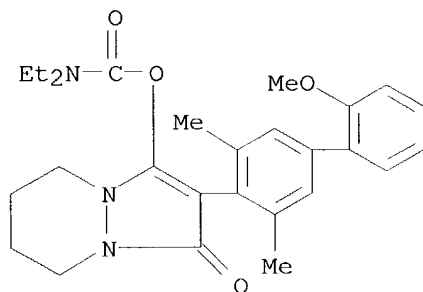
RN 329706-88-9 HCAPLUS

CN Carbamic acid, diethyl-, 2-(4'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-  
5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA  
INDEX NAME)



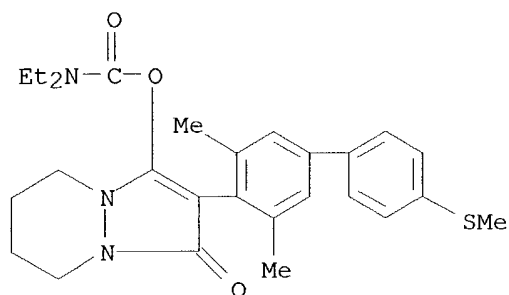
RN 329706-89-0 HCAPLUS

CN Carbamic acid, diethyl-, 5,6,7,8-tetrahydro-2-(2'-methoxy-3,5-  
dimethyl[1,1'-biphenyl]-4-yl)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester  
(9CI) (CA INDEX NAME)



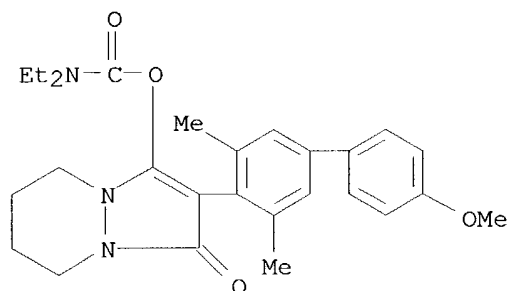
RN 329706-91-4 HCAPLUS

CN Carbamic acid, diethyl-, 2-[3,5-dimethyl-4'-(methylthio)[1,1'-biphenyl]-4-  
yl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)



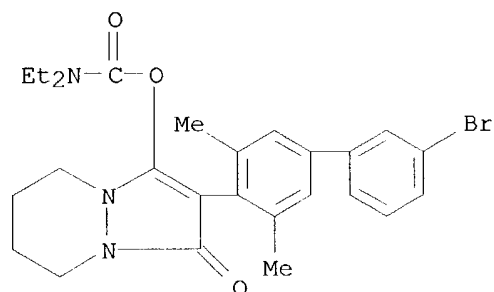
RN 329706-93-6 HCAPLUS

CN Carbamic acid, diethyl-, 5,6,7,8-tetrahydro-2-(4'-methoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



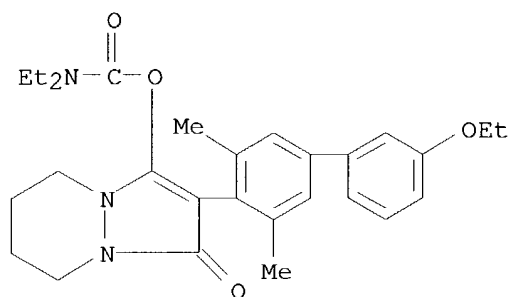
RN 329706-95-8 HCAPLUS

CN Carbamic acid, diethyl-, 2-(3'-bromo-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



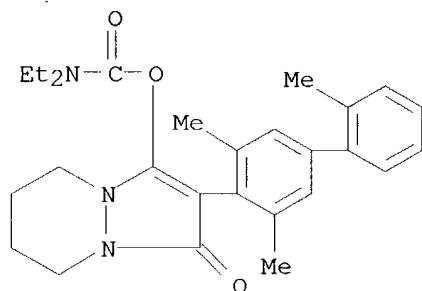
RN 329706-97-0 HCAPLUS

CN Carbamic acid, diethyl-, 2-(3'-ethoxy-3,5-dimethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



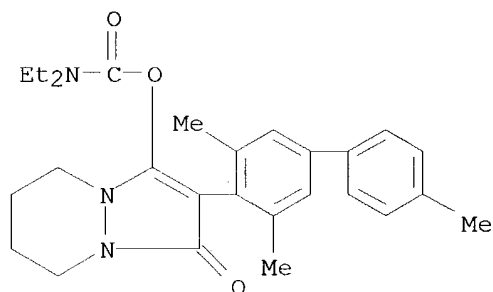
RN 329706-99-2 HCAPLUS

CN Carbamic acid, diethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2',3,5-trimethyl[1,1'-biphenyl]-4-yl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



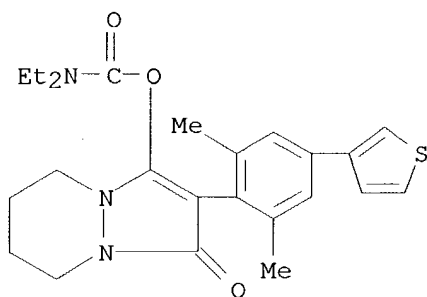
RN 329707-01-9 HCAPLUS

CN Carbamic acid, diethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(3,4',5-trimethyl[1,1'-biphenyl]-4-yl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



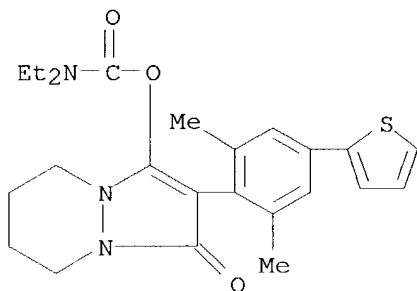
RN 329707-03-1 HCAPLUS

CN Carbamic acid, diethyl-, 2-[2,6-dimethyl-4-(3-thienyl)phenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



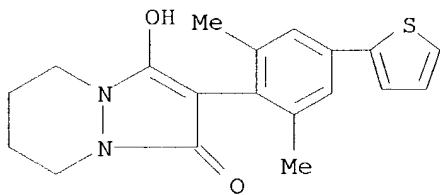
RN 329707-05-3 HCAPLUS

CN Carbamic acid, diethyl-, 2-[2,6-dimethyl-4-(2-thienyl)phenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329707-07-5 HCAPLUS

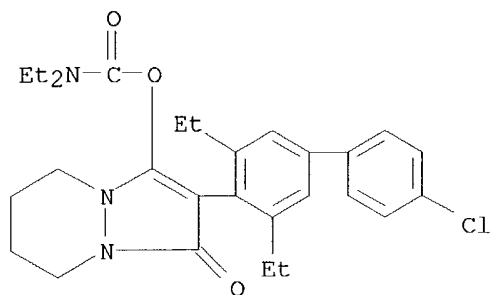
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[2,6-dimethyl-4-(2-thienyl)phenyl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329707-09-7 HCAPLUS

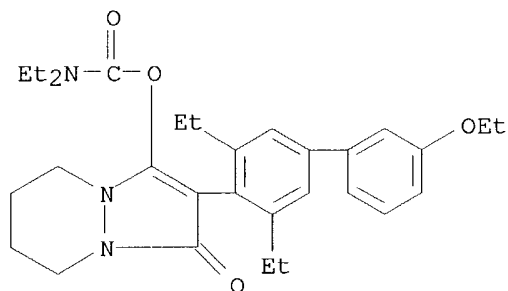
CN Carbamic acid, diethyl-, 2-(4'-chloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





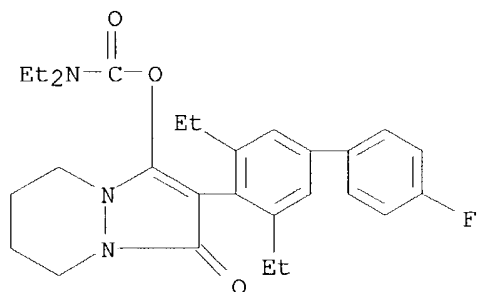
RN 329707-11-1 HCAPLUS

CN Carbamic acid, diethyl-, 2-(3'-ethoxy-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



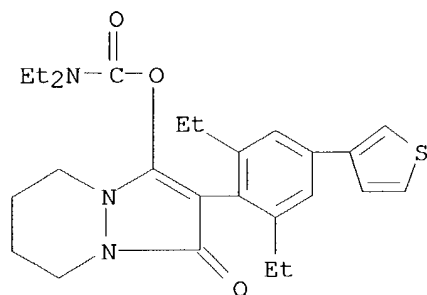
RN 329707-13-3 HCAPLUS

CN Carbamic acid, diethyl-, 2-(3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



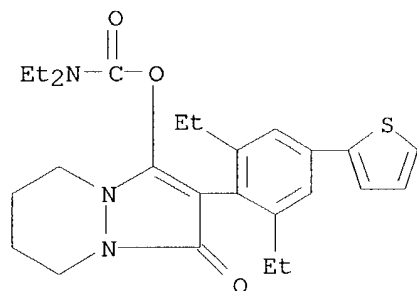
RN 329707-15-5 HCAPLUS

CN Carbamic acid, diethyl-, 2-[2,6-diethyl-4-(3-thienyl)phenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



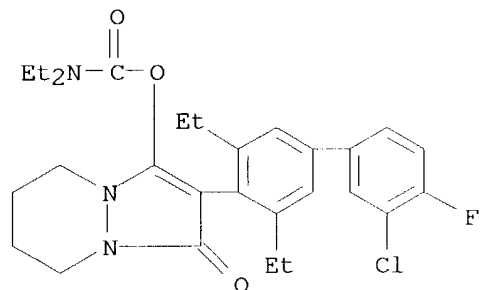
RN 329707-17-7 HCAPLUS

CN Carbamic acid, diethyl-, 2-[2,6-diethyl-4-(2-thienyl)phenyl]-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



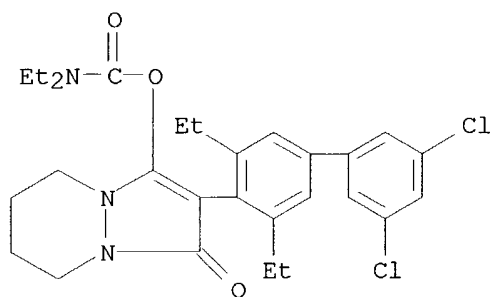
RN 329707-19-9 HCAPLUS

CN Carbamic acid, diethyl-, 2-(3'-chloro-3,5-diethyl-4'-fluoro[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



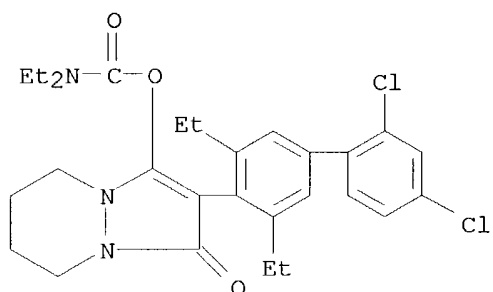
RN 329707-21-3 HCAPLUS

CN Carbamic acid, diethyl-, 2-(3',5'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



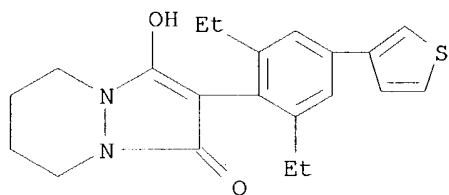
RN 329707-23-5 HCAPLUS

CN Carbamic acid, diethyl-, 2-(2',4'-dichloro-3,5-diethyl[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)



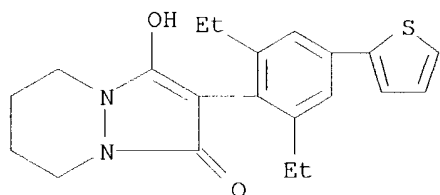
RN 329707-25-7 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[2,6-diethyl-4-(3-thienyl)phenyl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



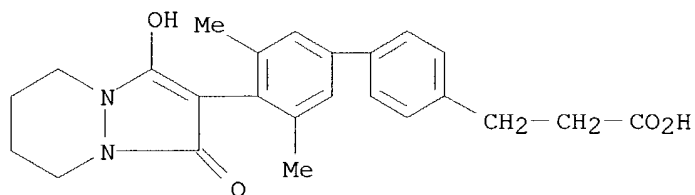
RN 329707-26-8 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-[2,6-diethyl-4-(2-thienyl)phenyl]-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



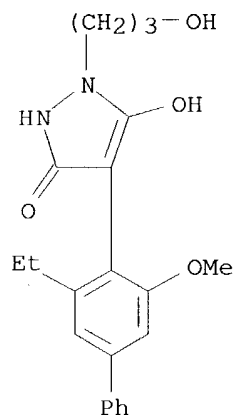
RN 329707-28-0 HCAPLUS

CN [1,1'-Biphenyl]-4-propanoic acid, 3',5'-dimethyl-4'-(5,6,7,8-tetrahydro-3-hydroxy-1-oxo-1H-pyrazolo[1,2-a]pyridazin-2-yl)- (9CI) (CA INDEX NAME)



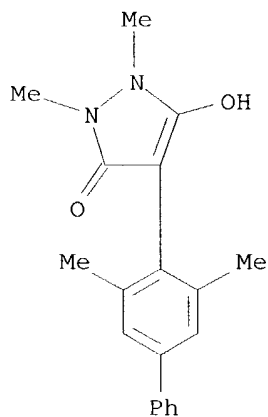
RN 329707-30-4 HCAPLUS

CN 3H-Pyrazol-3-one, 4-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-1,2-dihydro-5-hydroxy-1-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)



RN 329707-32-6 HCAPLUS

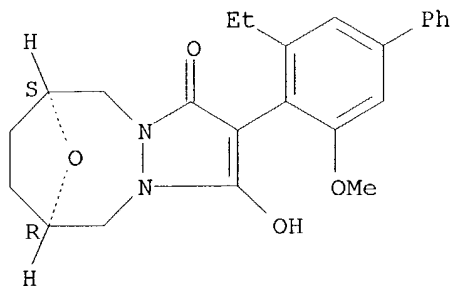
CN 3H-Pyrazol-3-one, 4-(3,5-dimethyl[1,1'-biphenyl]-4-yl)-1,2-dihydro-5-hydroxy-1,2-dimethyl- (9CI) (CA INDEX NAME)



RN 329707-36-0 HCAPLUS

CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-5,6,7,8,9,10-hexahydro-3-hydroxy-, (6R,9S)- (9CI) (CA INDEX NAME)

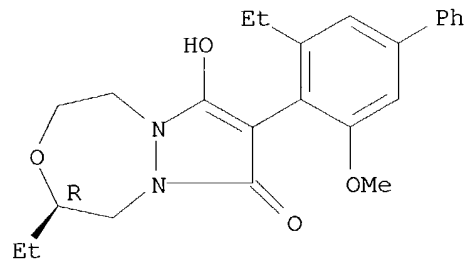
Absolute stereochemistry.



RN 329707-38-2 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 4-ethyl-8-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy-, (4R)- (9CI) (CA INDEX NAME)

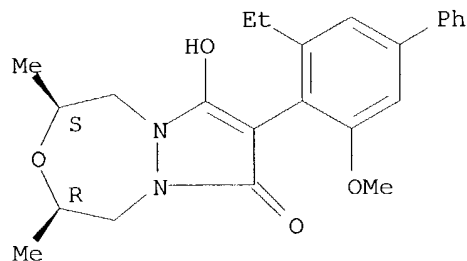
Absolute stereochemistry.



RN 329707-40-6 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-1,2,4,5-tetrahydro-9-hydroxy-2,4-dimethyl-, (2S,4R)- (9CI) (CA INDEX NAME)

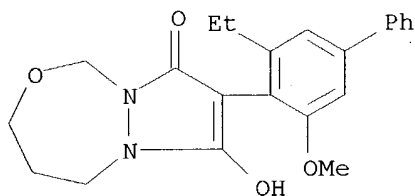
Absolute stereochemistry.



RN 329707-42-8 HCAPLUS

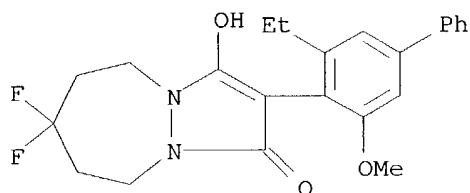
CN 1H,3H,9H-Pyrazolo[1,2-c][1,3,4]oxadiazepin-9-one, 8-(3-ethyl-5-

methoxy[1,1'-biphenyl]-4-yl)-4,5-dihydro-7-hydroxy- (9CI) (CA INDEX NAME)



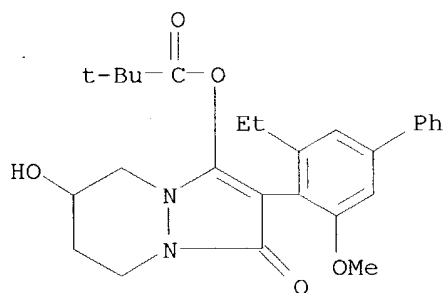
RN 329707-44-0 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-7,7-difluoro-6,7,8,9-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



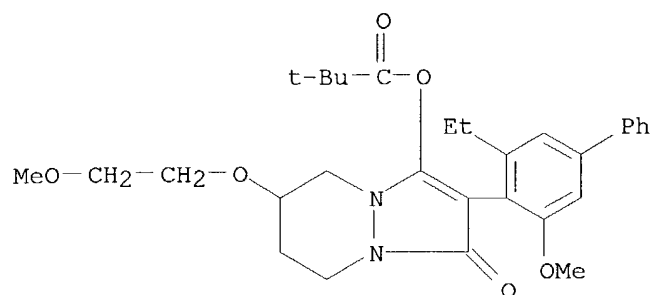
RN 329707-46-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-6-hydroxy-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329707-48-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(3-ethyl-5-methoxy[1,1'-biphenyl]-4-yl)-5,6,7,8-tetrahydro-6-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



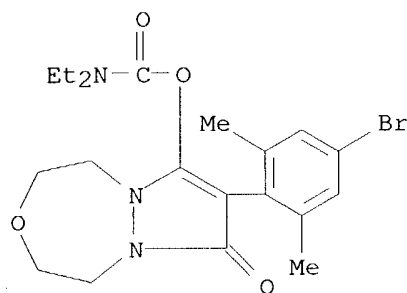
IT 329704-33-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of alkoxyphenyloxopyrazolines as herbicides)

RN 329704-33-8 HCAPLUS

CN Carbamic acid, diethyl-, 8-(4-bromo-2,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



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ACCESSION NUMBER: 2001:185730 HCAPLUS

DOCUMENT NUMBER: 134:237482

TITLE: preparation of alkylphenylpyrazolines, -pyrroles, -furans, -thiophenes, and -thiazines as herbicides.

INVENTOR(S): Maetzke, Thomas; Stoller, Andre; Wendeborn, Sebastian; Szczepanski, Henry

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 135 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--|------|----------|-----------------|----------|
| WO 2001017972  | A2   | 20010315 | WO 2000-EP8656  | 20000905 |
| WO 2001017972  | A3   | 20010927 |                 |          |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, |      |          |                 |          |

LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,  
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,  
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,  
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 EP 1210333 A2 20020605 EP 2000-965923 20000905  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL  
 AU 767356 B2 20031106 AU 2000-76503 20000905  
 PRIORITY APPLN. INFO.: CH 1999-1642 A 19990907  
 WO 2000-EP8656 W 20000905  
 OTHER SOURCE(S): MARPAT 134:237482  
 AB Title compds. [I; R1, R3 = Et, haloethyl, ethynyl, alkoxy, haloalkoxy,  
 alkylcarbonyl, hydroxyalkyl, alkoxy carbonyl; Q = (substituted)  
 dioxopyrazolinyl, dioxopyrrolyl, dioxofuranyl, dioxothienyl, dioxopyranlyl,  
 dioxothiazinyl, etc.] were prepd. Thus, hexahydropyridazine  
 dihydrobromide and Et3N in xylene were heated at 60.degree. and then di-Et  
 (4-methyl-2,6-diethylphenyl)malonate (analog prepn. is given) was added  
 followed by heating at 150.degree. with distn. of Et3N and EtOH to give  
 2-(2,6-diethyl-4-methylphenyl)-tetrahydropyrazolo[1,2,a]pyridazine-1,3-  
 dione, which was treated with Et3N in THF, DMAP and Me3CCOCl to give  
 5-oxo-3-pivaloyl-2(2,6-diethyl-4-methylphenyl)-tetrahydro-  
 pyrazolo[1,2,a]pyridazine. Several I at 500 ppm preemergent and at 250  
 ppm postemergent gave 50-100% control of Alopecurus, Avena, Lolium,  
 Setaria, Panicum, Sorghum, Digitaria, Echinocloa, and Brachiaria.  
 IC ICM C07D231-00  
 CC 28-14 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 5  
 IT **Herbicides**  
 (prepn. of alkylphenylpyrazolines, -pyrroles, -furans, -thiophenes, or  
 -thiazines as herbicides)  
 IT 329963-02-2P 329963-03-3P 329963-06-6P  
 329963-08-8P 329963-10-2P 329963-12-4P  
 329963-14-6P 329963-16-8P 329963-18-0P  
 329963-20-4P 329963-22-6P 329963-24-8P  
 329963-26-0P 329963-28-2P 329963-30-6P  
 329963-32-8P 329963-34-0P 329963-36-2P  
 329963-38-4P 329963-40-8P 329963-42-0P  
 329963-44-2P 329963-46-4P 329963-48-6P  
 329963-50-0P 329963-52-2P 329963-55-5P  
 329963-57-7P 329963-59-9P 329963-61-3P  
 329963-63-5P 329963-65-7P 329963-67-9P  
 329963-68-0P 329963-69-1P 329963-71-5P  
 329963-73-7P 329963-74-8P 329963-76-0P  
 329963-77-1P 329963-78-2P 329963-79-3P  
 329963-80-6P 329963-81-7P 329963-83-9P  
 329963-85-1P 329963-86-2P 329963-87-3P  
 329963-89-5P 329963-90-8P 329963-91-9P  
 329963-92-0P 329963-93-1P 329963-95-3P  
 329963-97-5P 329963-98-6P 329964-00-3P  
 329964-02-5P 329964-04-7P 329964-06-9P  
 329964-08-1P 329964-09-2P 329964-10-5P  
 329964-11-6P 329964-12-7P 329964-13-8P  
 329964-14-9P 329964-15-0P 329964-17-2P  
 329964-18-3P 329964-20-7P 329964-21-8P  
 329964-22-9P 329964-23-0P 329964-24-1P



329964-25-2P 329964-27-4P 329964-29-6P  
329964-30-9P 329964-31-0P 329964-33-2P  
329964-34-3P 329964-35-4P 329964-37-6P  
329964-38-7P 329964-40-1P 329964-41-2P  
329964-42-3P 329964-43-4P 329964-44-5P  
329964-45-6P 329964-47-8P 329964-49-0P  
329964-51-4P 329964-52-5P 329964-54-7P  
329964-56-9P 329964-58-1P 329964-60-5P  
329964-62-7P 329964-63-8P 329964-65-0P 329964-67-2P 329964-68-3P  
329964-69-4P 329964-70-7P 329964-72-9P 329964-73-0P 329964-74-1P  
329964-75-2P 329964-77-4P 329964-78-5P 329964-80-9P 329964-82-1P  
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329964-90-1P

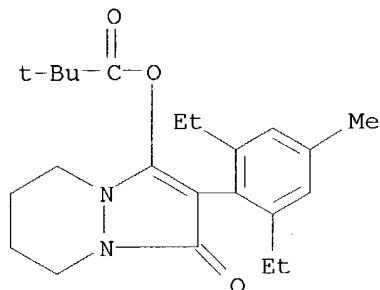
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of alkylphenylpyrazolines, -pyrroles, -furans, -thiophenes, or -thiazines as herbicides)

IT 329963-02-2P 329963-03-3P 329963-06-6P  
329963-08-8P 329963-10-2P 329963-12-4P  
329963-14-6P 329963-16-8P 329963-18-0P  
329963-20-4P 329963-22-6P 329963-24-8P  
329963-26-0P 329963-28-2P 329963-30-6P  
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329963-38-4P 329963-40-8P 329963-42-0P  
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329964-56-9P 329964-58-1P 329964-60-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of alkylphenylpyrazolines, -pyrroles, -furans, -thiophenes, or -thiazines as herbicides)

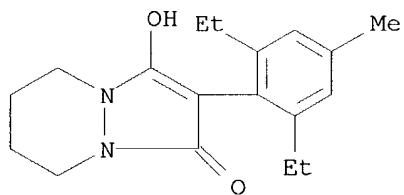
RN 329963-02-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



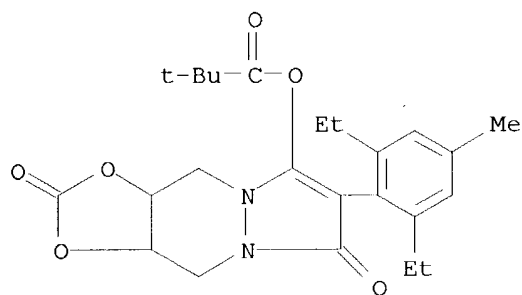
RN 329963-03-3 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



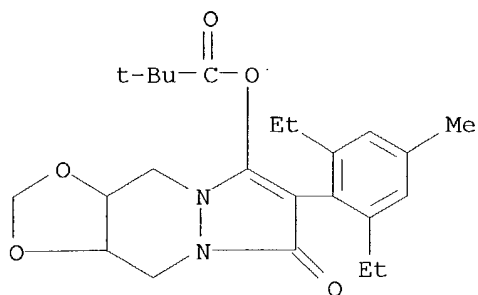
RN 329963-06-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 7-(2,6-diethyl-4-methylphenyl)-3a,4,10,10a-tetrahydro-2,6-dioxo-6H-1,3-dioxolo[4,5-d]pyrazolo[1,2-a]pyridazin-8-yl ester (9CI) (CA INDEX NAME)



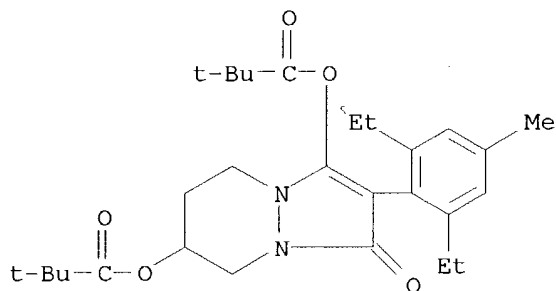
RN 329963-08-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 7-(2,6-diethyl-4-methylphenyl)-3a,4,10,10a-tetrahydro-6-oxo-6H-1,3-dioxolo[4,5-d]pyrazolo[1,2-a]pyridazin-8-yl ester (9CI) (CA INDEX NAME)



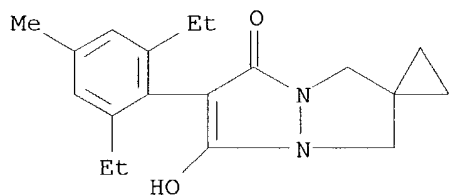
RN 329963-10-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazine-3,7-diyl ester (9CI) (CA INDEX NAME)



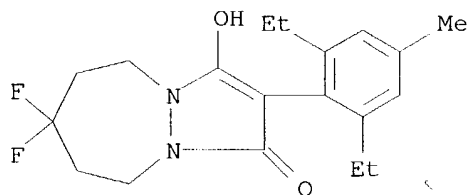
RN 329963-12-4 HCAPLUS

CN Spiro[cyclopropane-1,2'-(3'H)-[1H,5H]pyrazolo[1,2-a]pyrazol]-5'-one, 6'-(2,6-diethyl-4-methylphenyl)-7'-hydroxy- (9CI) (CA INDEX NAME)



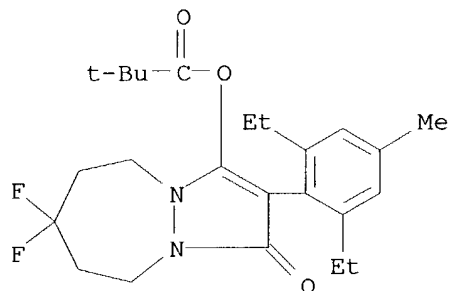
RN 329963-14-6 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2,6-diethyl-4-methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



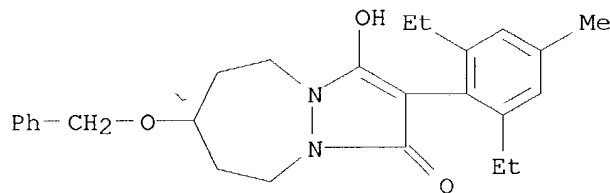
RN 329963-16-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-1-oxo-1H,5H-pyrazolo[1,2-a][1,2]diazepin-3-yl ester (9CI) (CA INDEX NAME)



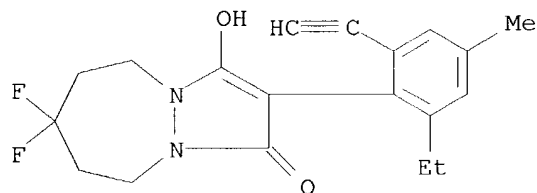
RN 329963-18-0 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2,6-diethyl-4-methylphenyl)-6,7,8,9-tetrahydro-3-hydroxy-7-(phenylmethoxy)- (9CI) (CA INDEX NAME)



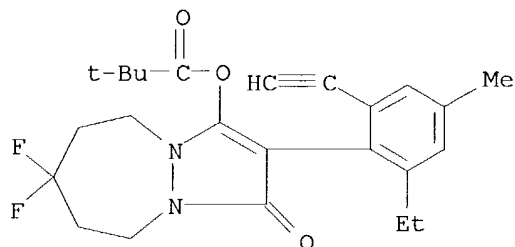
RN 329963-20-4 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2-ethyl-6-ethynyl-4-methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



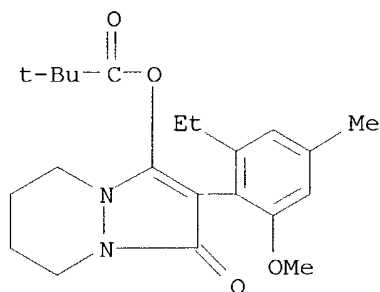
RN 329963-22-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(2-ethyl-6-ethynyl-4-methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-1-oxo-1H,5H-pyrazolo[1,2-a][1,2]diazepin-3-yl ester (9CI) (CA INDEX NAME)



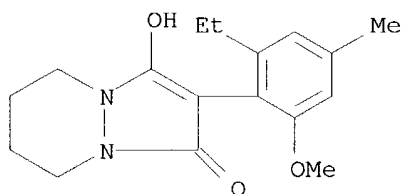
RN 329963-24-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-  
5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA  
INDEX NAME)



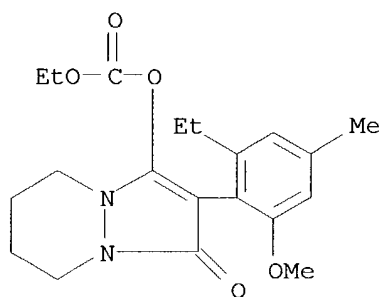
RN 329963-26-0 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-  
5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



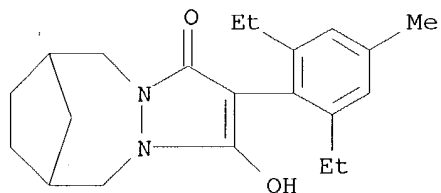
RN 329963-28-2 HCAPLUS

CN Carbonic acid, ethyl 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-  
tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX  
NAME)



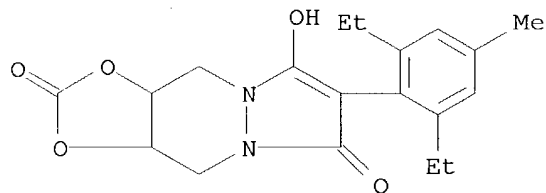
RN 329963-30-6 HCAPLUS

CN 6,9-Methano-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-3-hydroxy- (9CI) (CA INDEX NAME)



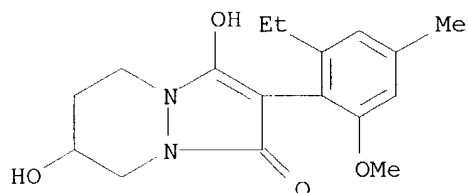
RN 329963-32-8 HCAPLUS

CN 6H-1,3-Dioxolo[4,5-d]pyrazolo[1,2-a]pyridazine-2,6-dione, 7-(2,6-diethyl-4-methylphenyl)-3a,4,10,10a-tetrahydro-8-hydroxy- (9CI) (CA INDEX NAME)



RN 329963-34-0 HCAPLUS

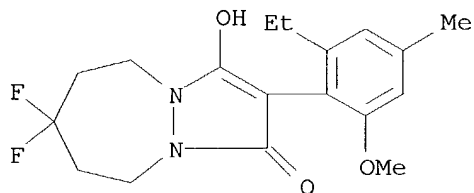
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-3,7-dihydroxy- (9CI) (CA INDEX NAME)



RN 329963-36-2 HCAPLUS

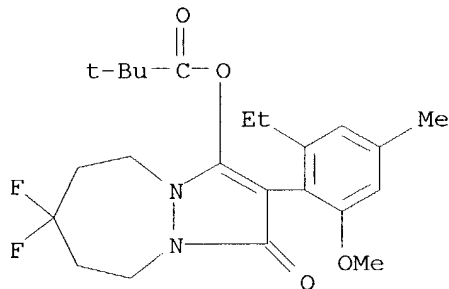
CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2-ethyl-6-methoxy-4-

methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 329963-38-4 HCAPLUS

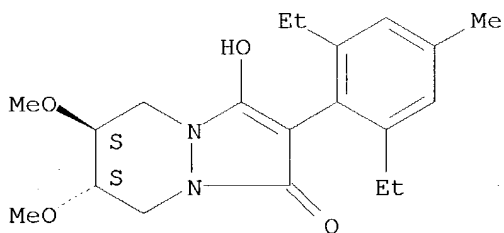
CN Propanoic acid, 2,2-dimethyl-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-7,7-difluoro-6,7,8,9-tetrahydro-1-oxo-1H,5H-pyrazolo[1,2-a][1,2]diazepin-3-yl ester (9CI) (CA INDEX NAME)



RN 329963-40-8 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-3-hydroxy-6,7-dimethoxy-, (6R,7R)-rel- (9CI) (CA INDEX NAME)

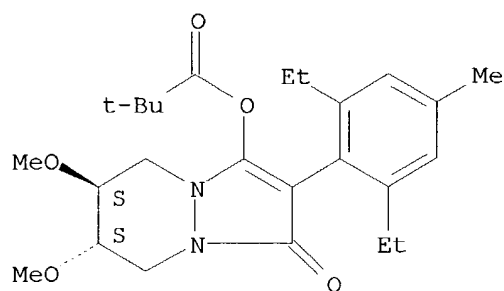
Relative stereochemistry.



RN 329963-42-0 HCAPLUS

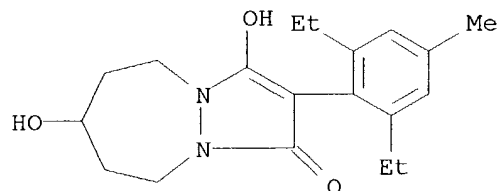
CN Propanoic acid, 2,2-dimethyl-, (6R,7R)-2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-6,7-dimethoxy-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



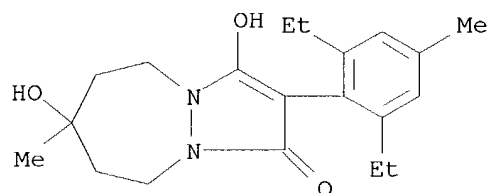
RN 329963-44-2 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2,6-diethyl-4-methylphenyl)-6,7,8,9-tetrahydro-3,7-dihydroxy- (9CI) (CA INDEX NAME)



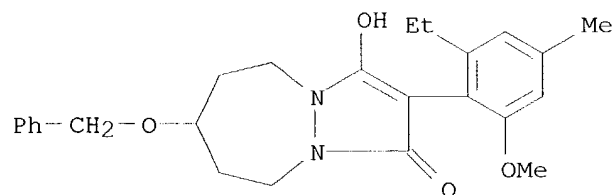
RN 329963-46-4 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2,6-diethyl-4-methylphenyl)-6,7,8,9-tetrahydro-3,7-dihydroxy-7-methyl- (9CI) (CA INDEX NAME)



RN 329963-48-6 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-6,7,8,9-tetrahydro-3-hydroxy-7-(phenylmethoxy)- (9CI) (CA INDEX NAME)

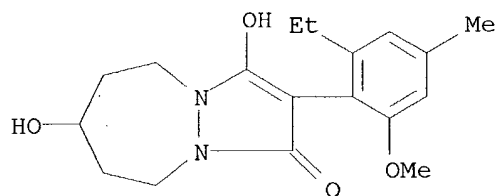


RN 329963-50-0 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 2-(2-ethyl-6-methoxy-4-

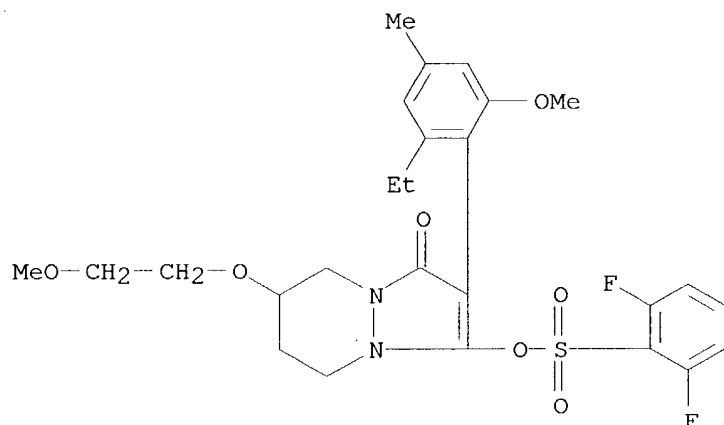


methylphenyl)-6,7,8,9-tetrahydro-3,7-dihydroxy- (9CI) (CA INDEX NAME)



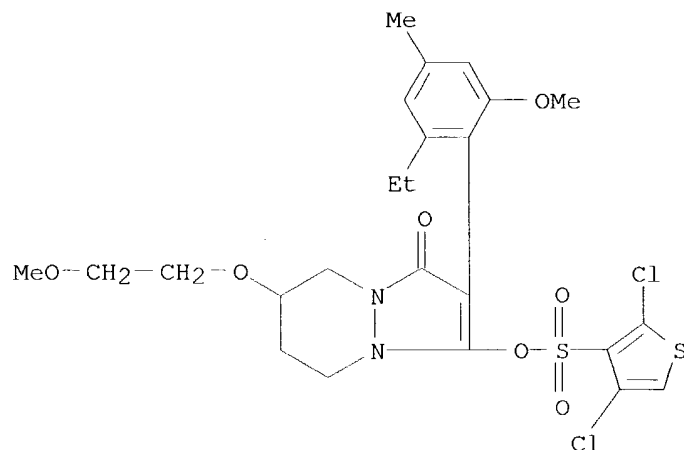
RN 329963-52-2 HCAPLUS

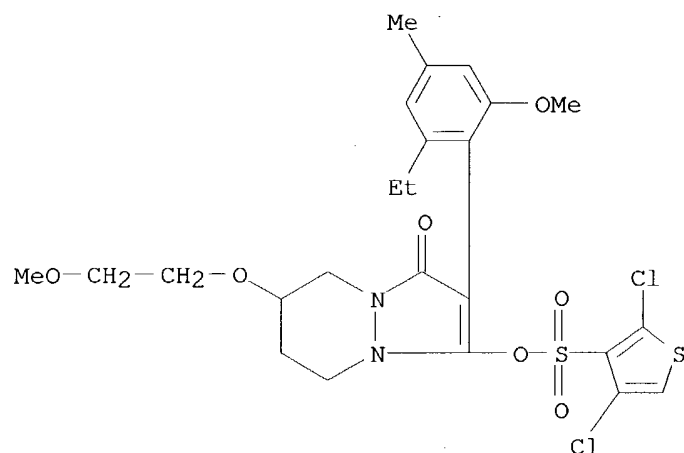
CN Benzenesulfonic acid, 2,6-difluoro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329963-55-5 HCAPLUS

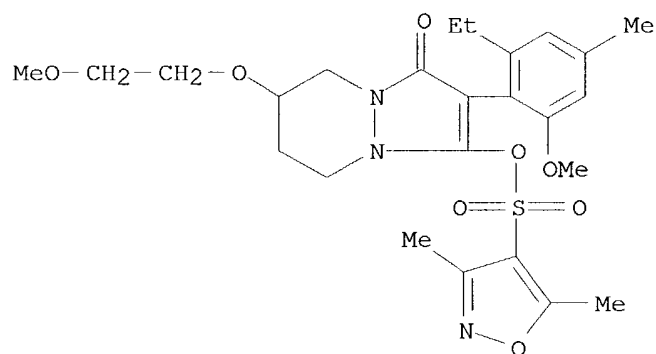
CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





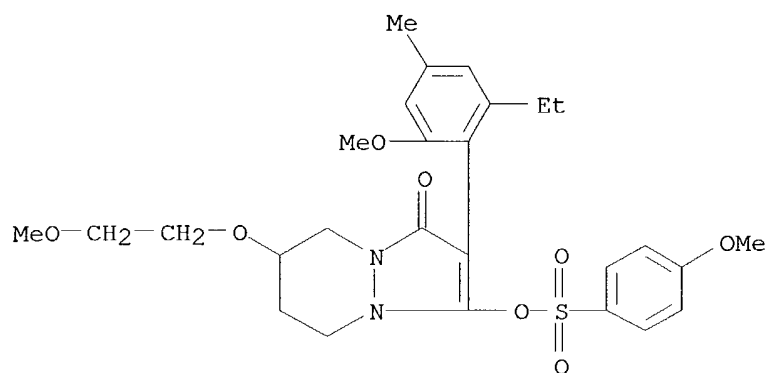
RN 329963-57-7 HCAPLUS

CN 4-Isioxazolesulfonic acid, 3,5-dimethyl-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



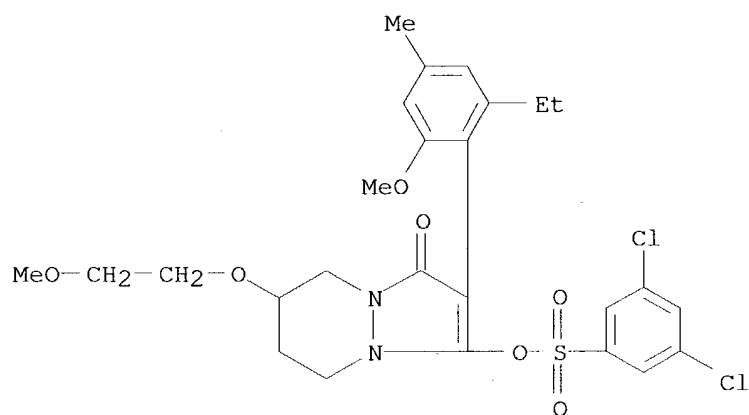
RN 329963-59-9 HCAPLUS

CN Benzenesulfonic acid, 4-methoxy-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



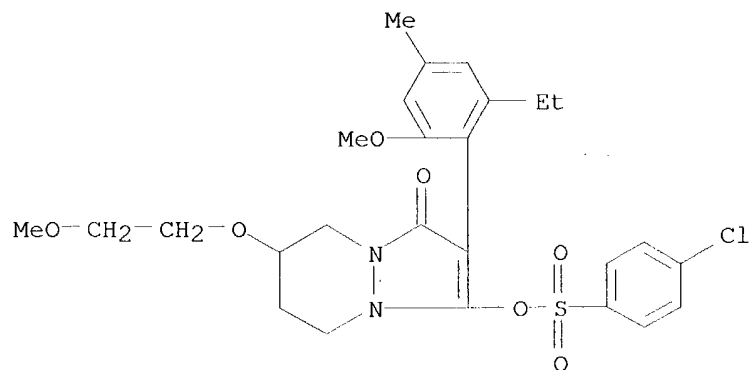
RN 329963-61-3 HCAPLUS

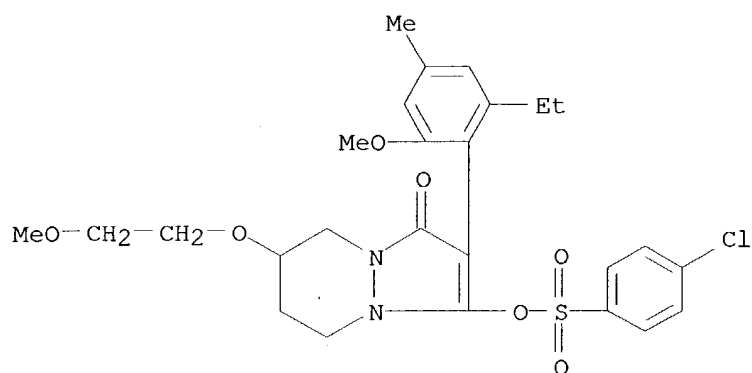
CN Benzenesulfonic acid, 3,5-dichloro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329963-63-5 HCAPLUS

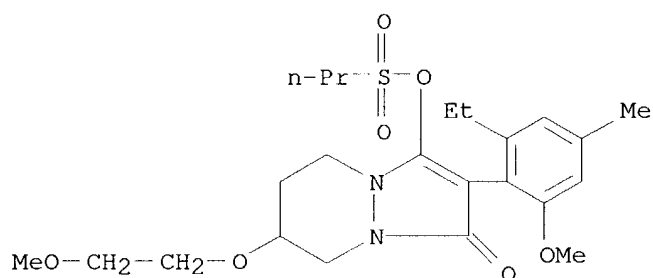
CN Benzenesulfonic acid, 4-chloro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





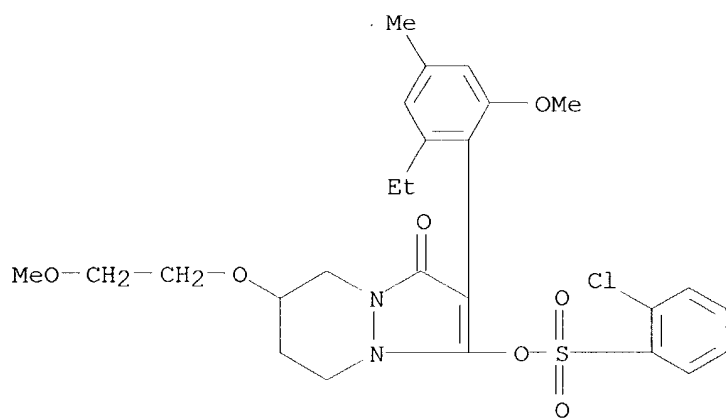
RN 329963-65-7 HCAPLUS

CN 1-Propanesulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329963-67-9 HCAPLUS

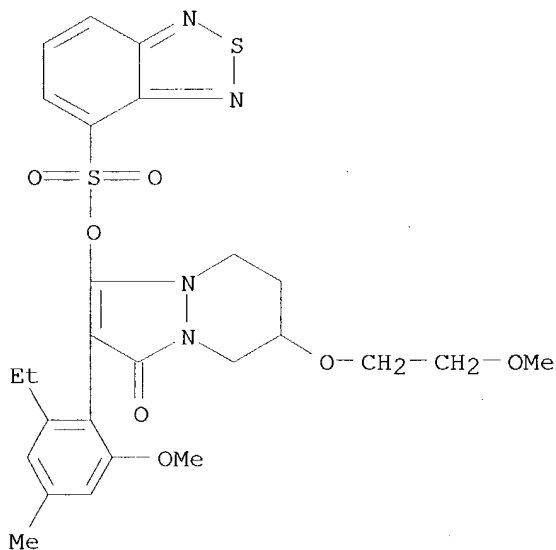
CN Benzenesulfonic acid, 2-chloro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



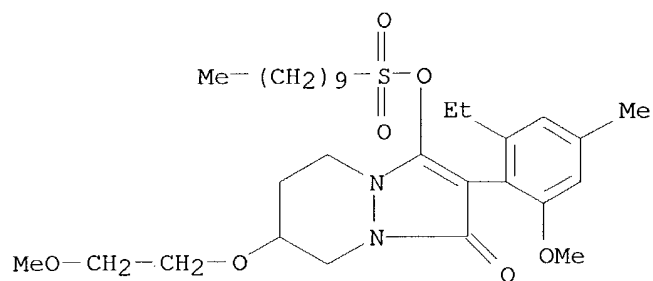
RN 329963-68-0 HCAPLUS

CC1=CC(=C(C=C1)C(=O)N2CCN(C2)CCOC)C(=O)N3C(=C(C=C3)C)S(=O)(=O)C4=C(C)N(C)N=C4Cl

CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

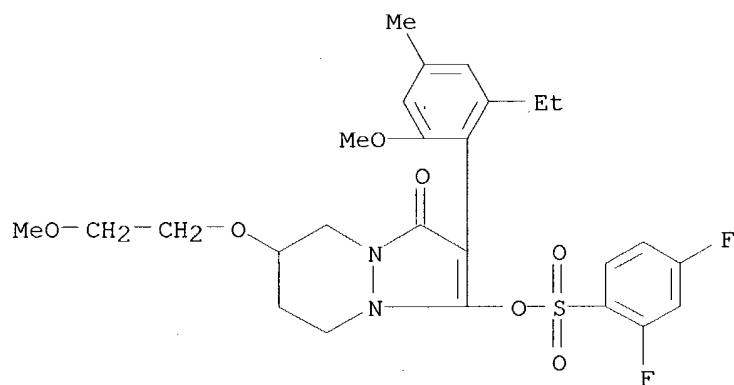


CN 1-Decanesulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



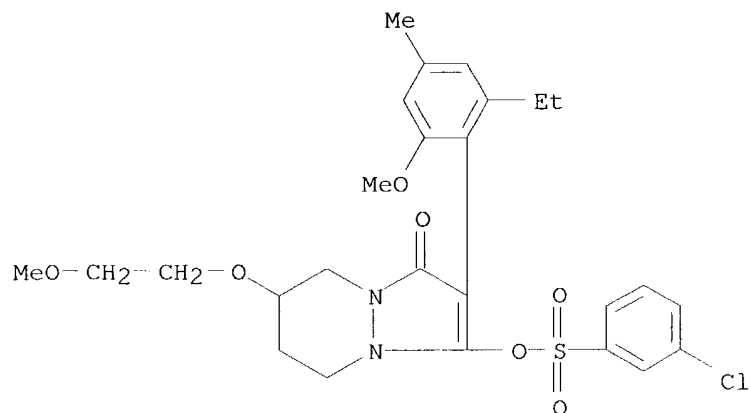
RN 329963-73-7 HCAPLUS

CN Benzenesulfonic acid, 2,4-difluoro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



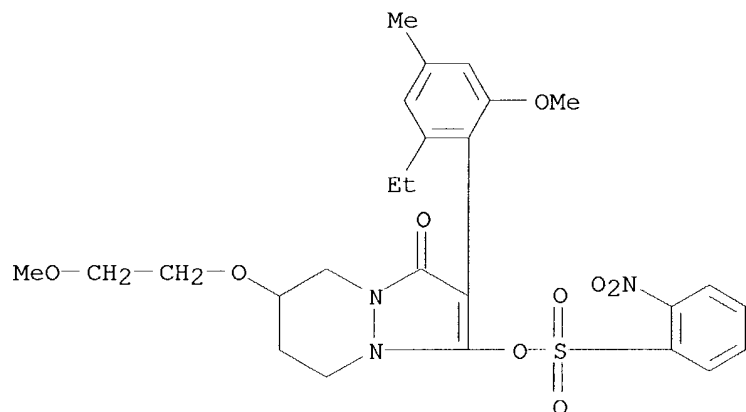
RN 329963-74-8 HCAPLUS

CN Benzenesulfonic acid, 3-chloro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



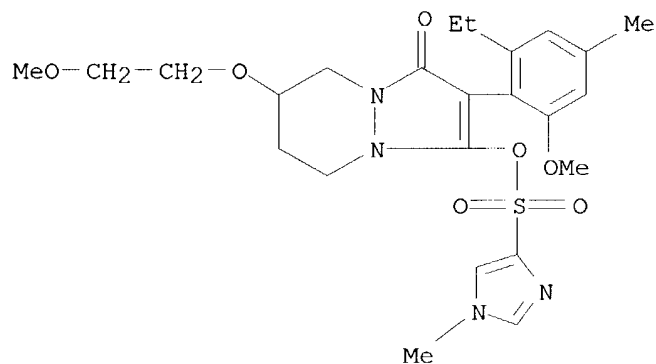
RN 329963-76-0 HCAPLUS

CN Benzenesulfonic acid, 2-nitro-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



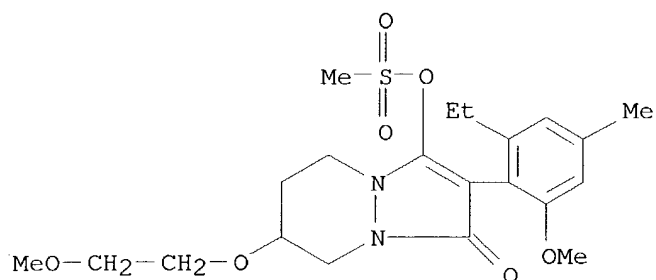
RN 329963-77-1 HCAPLUS

CN 1H-Imidazole-4-sulfonic acid, 1-methyl-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



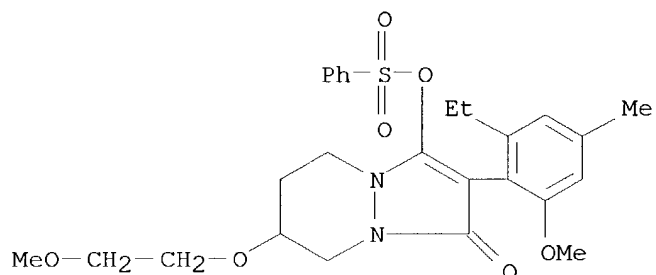
RN 329963-78-2 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-3-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



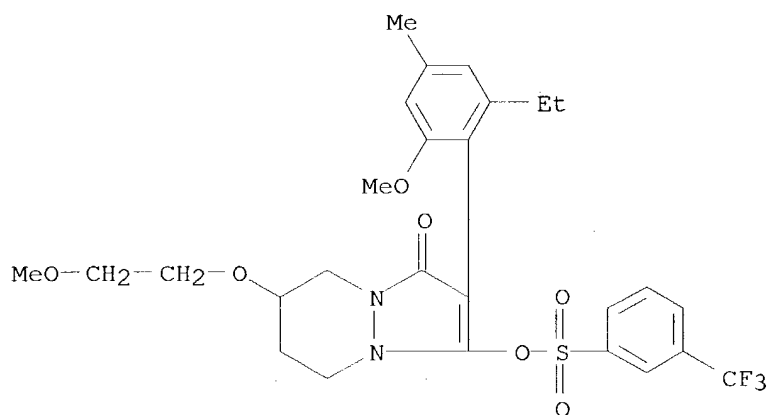
RN 329963-79-3 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-3-[(phenylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



RN 329963-80-6 HCAPLUS

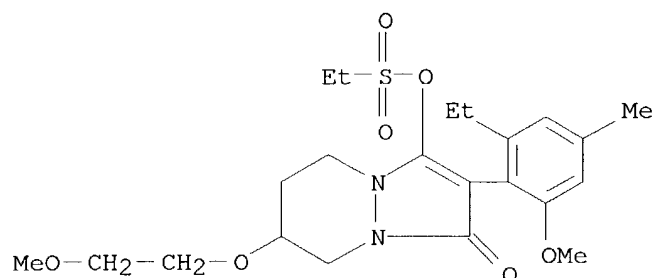
CN Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329963-81-7 HCAPLUS

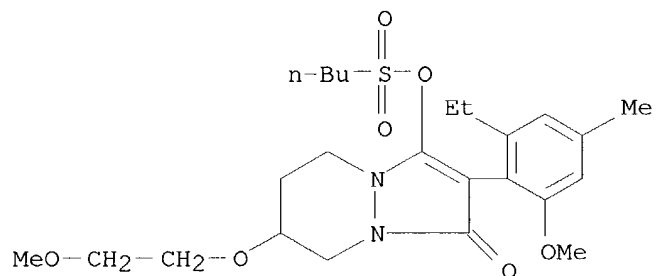
CN Ethanesulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





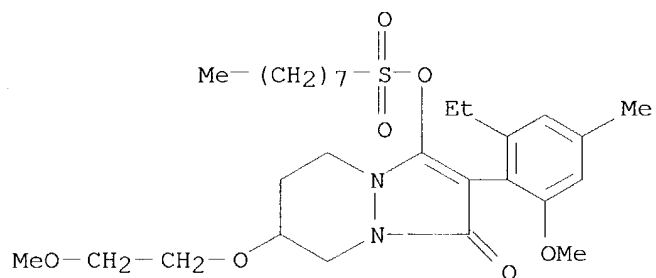
RN 329963-83-9 HCAPLUS

CN 1-Butanesulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



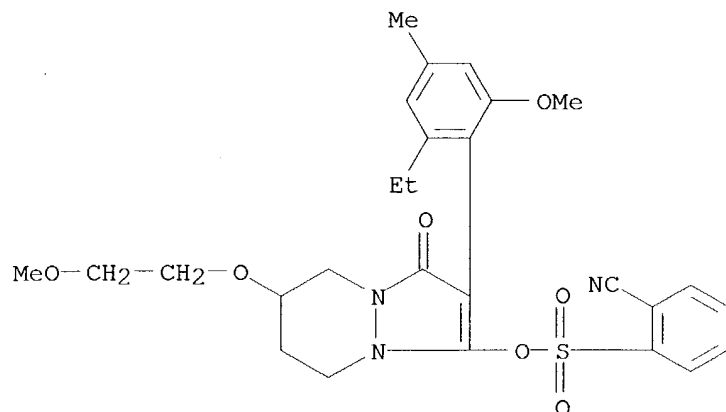
RN 329963-85-1 HCAPLUS

CN 1-Octanesulfonic acid, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



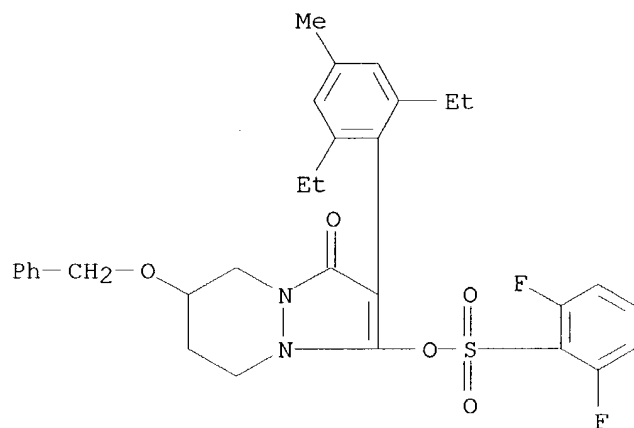
RN 329963-86-2 HCAPLUS

CN Benzenesulfonic acid, 2-cyano-, 2-(2-ethyl-6-methoxy-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329963-87-3 HCAPLUS

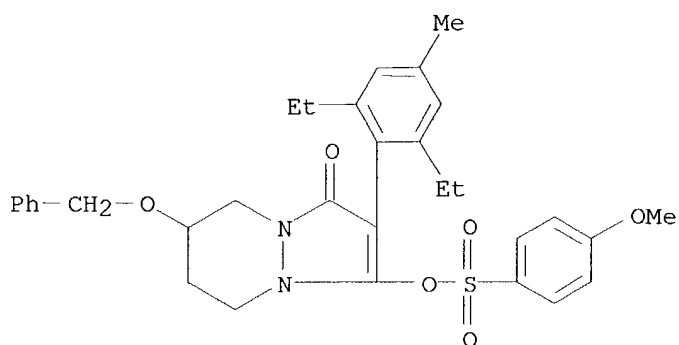
CN Benzenesulfonic acid, 2,6-difluoro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329963-89-5 HCAPLUS

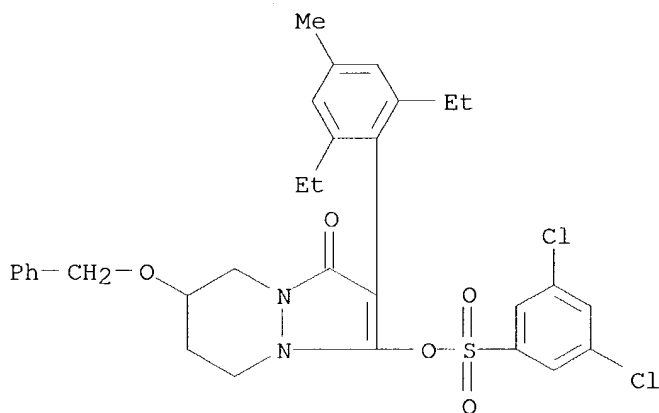
CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





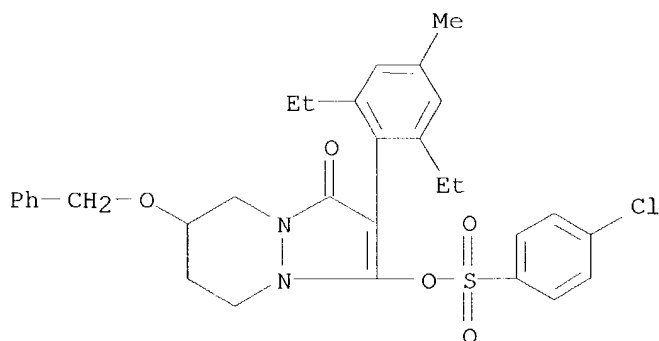
RN 329963-92-0 HCAPLUS

CN Benzenesulfonic acid, 3,5-dichloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



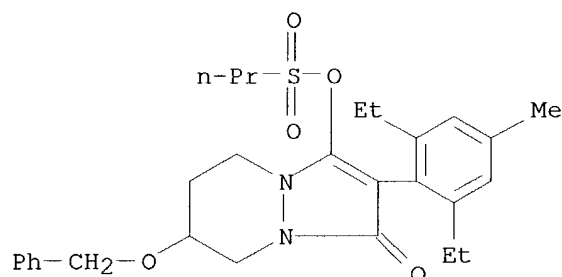
RN 329963-93-1 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



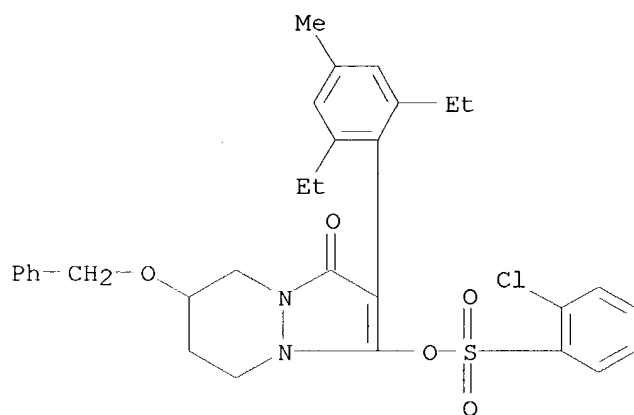
RN 329963-95-3 HCAPLUS

CN 1-Propanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



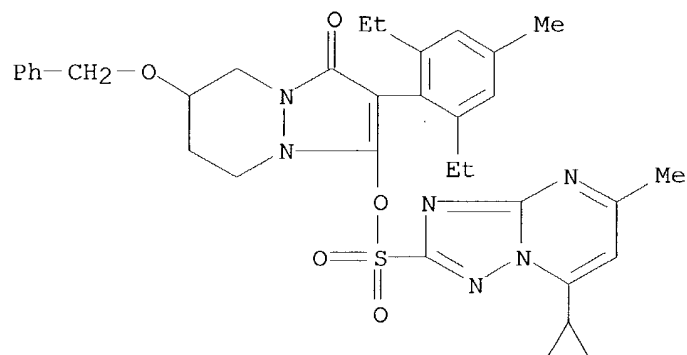
RN 329963-97-5 HCAPLUS

CN Benzenesulfonic acid, 2-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



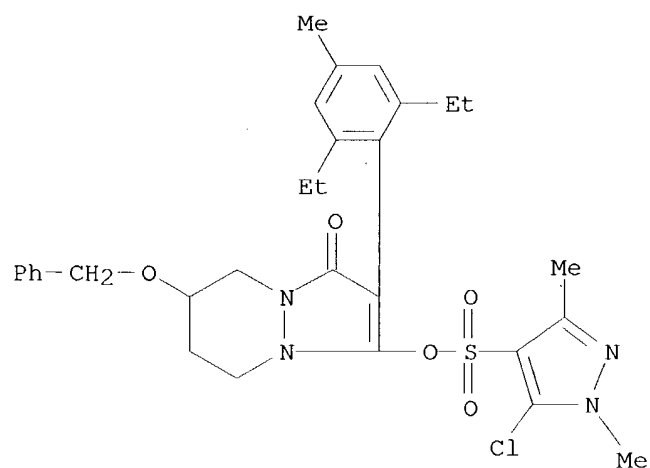
RN 329963-98-6 HCAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidine-2-sulfonic acid, 7-cyclopropyl-5-methyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



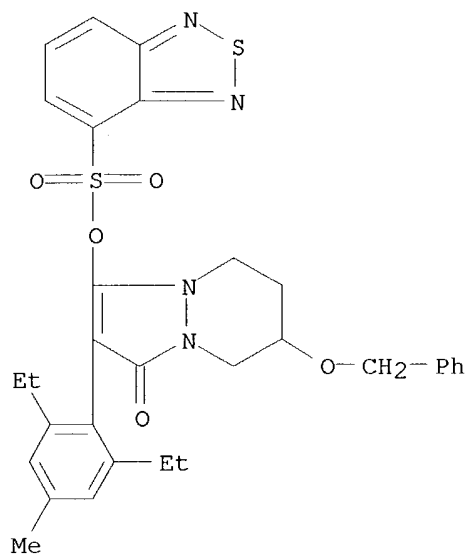
RN 329964-00-3 HCAPLUS

CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



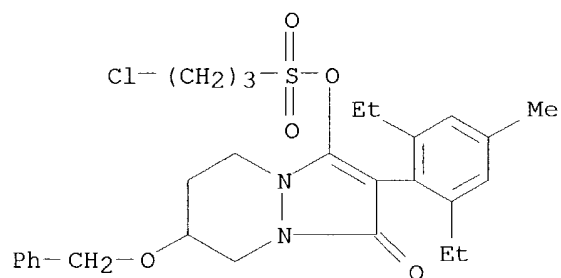
RN 329964-02-5 HCAPLUS

CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



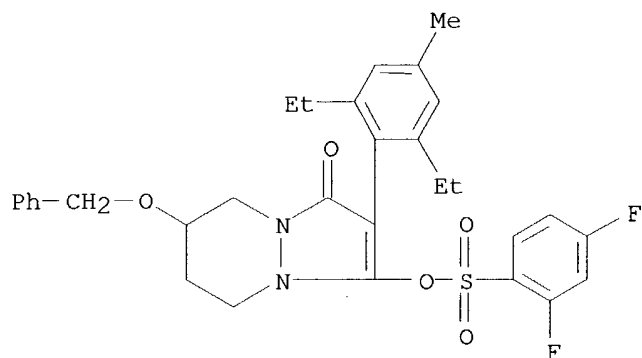
RN 329964-04-7 HCAPLUS

CN 1-Propanesulfonic acid, 3-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



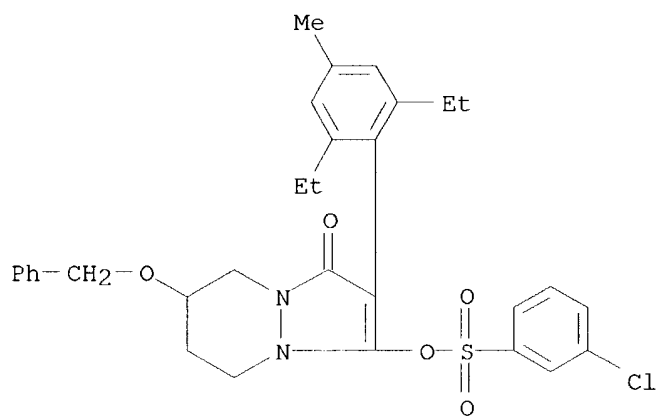
RN 329964-06-9 HCAPLUS

CN Benzenesulfonic acid, 2,4-difluoro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329964-08-1 HCAPLUS

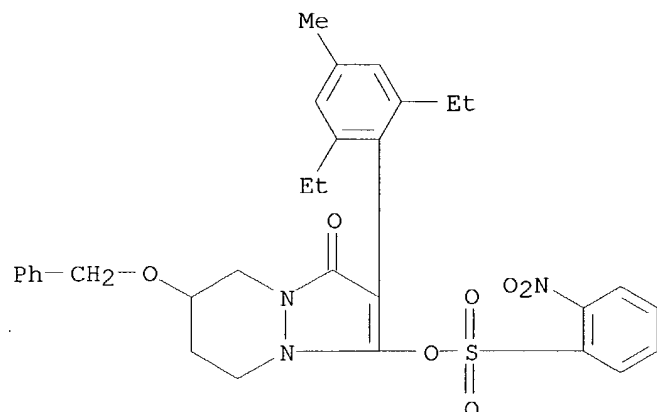
CN Benzenesulfonic acid, 3-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329964-09-2 HCAPLUS

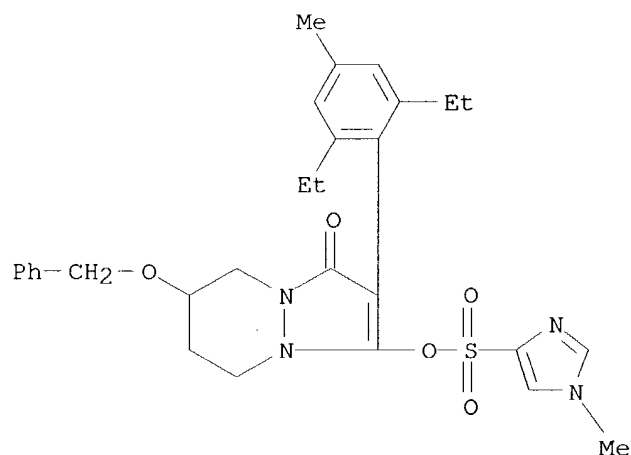
CN Benzenesulfonic acid, 2-nitro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





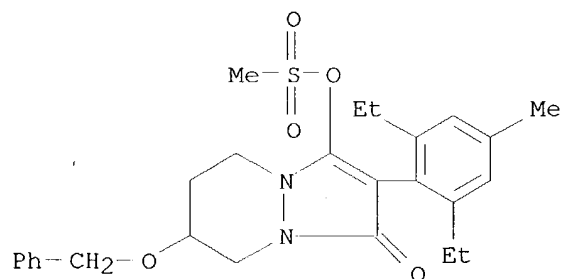
RN 329964-10-5 HCAPLUS

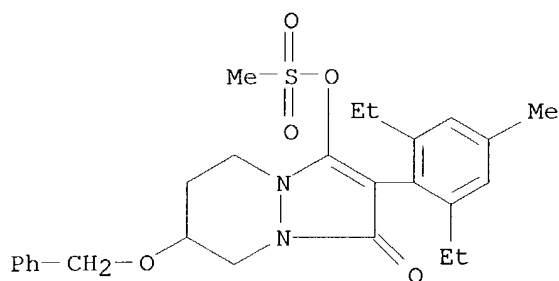
CN 1H-Imidazole-4-sulfonic acid, 1-methyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329964-11-6 HCAPLUS

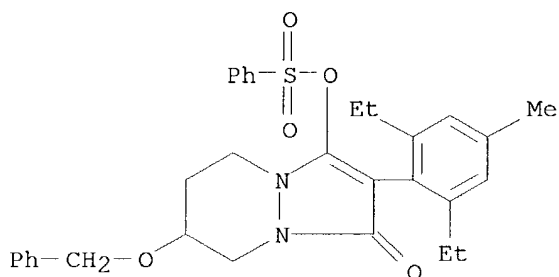
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-3-[(methylsulfonyl)oxy]-7-(phenylmethoxy)- (9CI) (CA INDEX NAME)





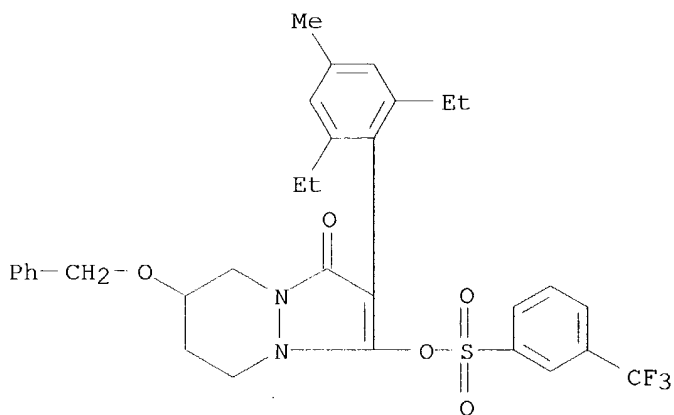
RN 329964-12-7 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(phenylmethoxy)-3-[(phenylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



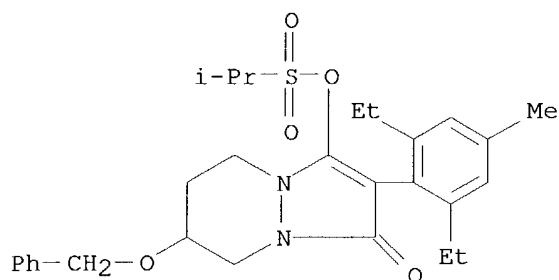
RN 329964-13-8 HCAPLUS

CN Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



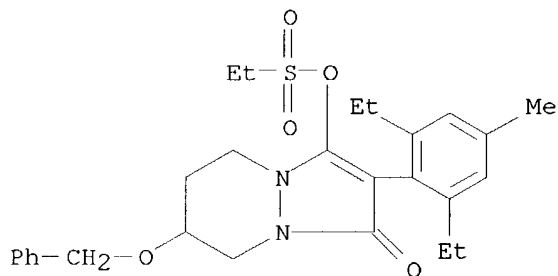
RN 329964-14-9 HCAPLUS

CN 2-Propanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



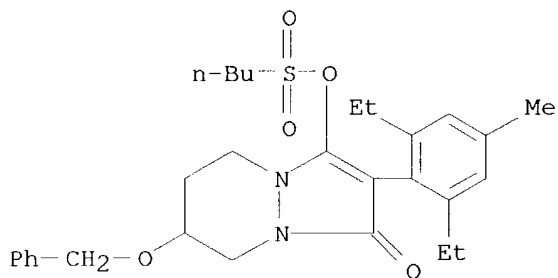
RN 329964-15-0 HCAPLUS

CN Ethanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



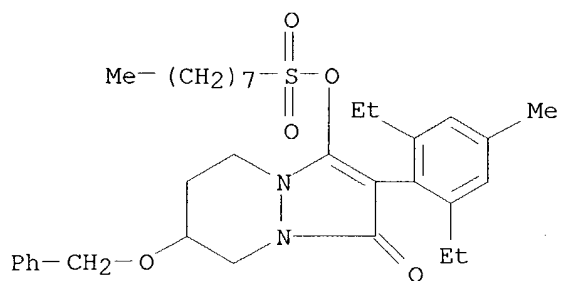
RN 329964-17-2 HCAPLUS

CN 1-Butanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



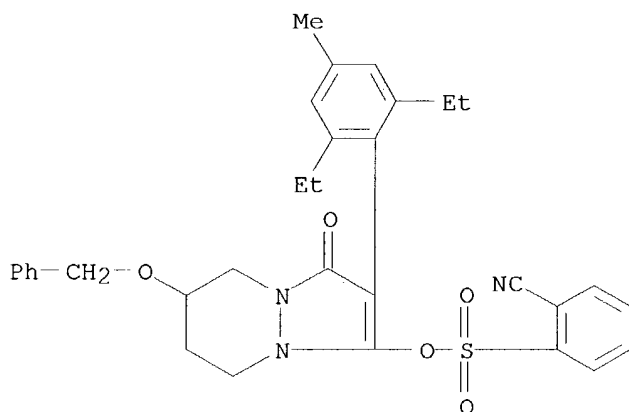
RN 329964-18-3 HCAPLUS

CN 1-Octanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



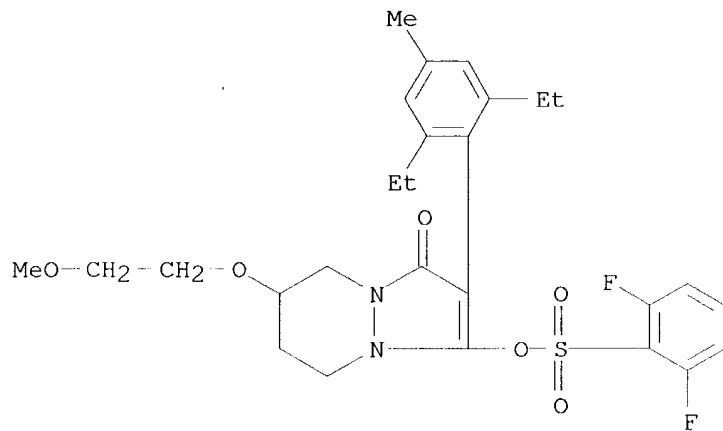
RN 329964-20-7 HCAPLUS

CN Benzenesulfonic acid, 2-cyano-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-1-oxo-7-(phenylmethoxy)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



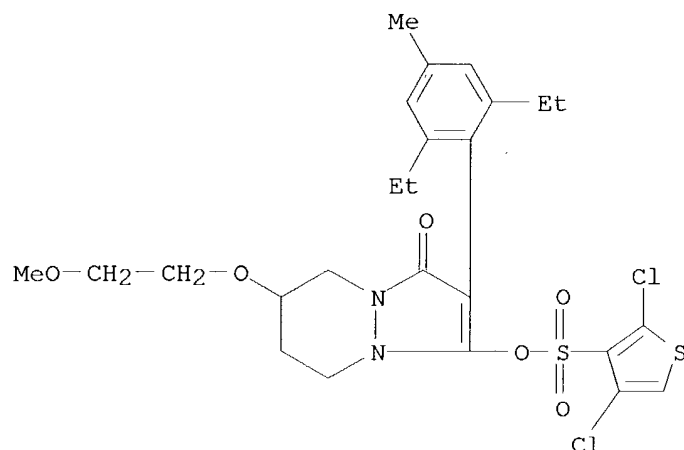
RN 329964-21-8 HCAPLUS

CN Benzenesulfonic acid, 2,6-difluoro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



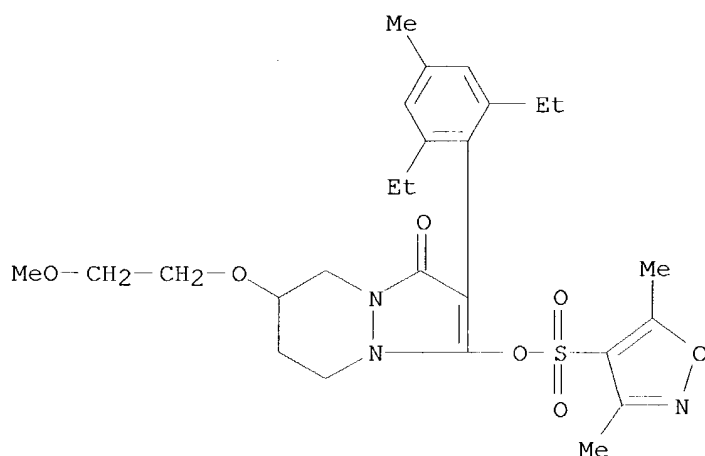
RN 329964-22-9 HCAPLUS

CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



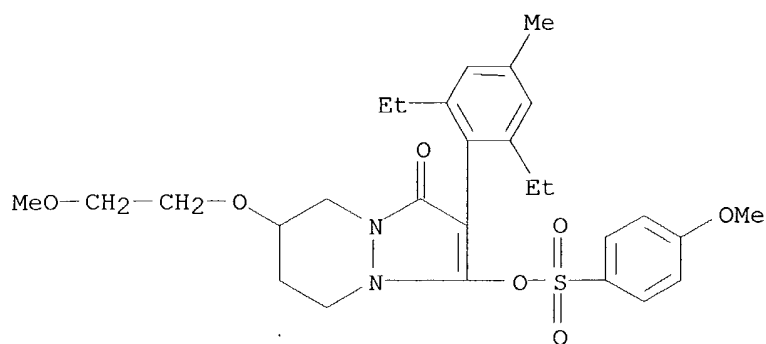
RN 329964-23-0 HCAPLUS

CN 4-Isoxazolesulfonic acid, 3,5-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



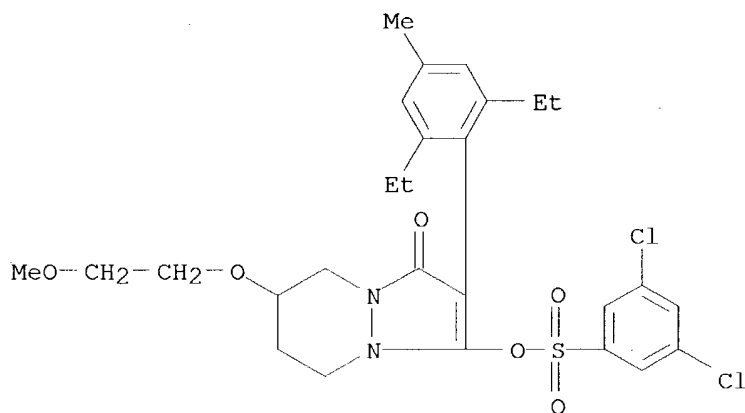
RN 329964-24-1 HCAPLUS

CN Benzenesulfonic acid, 4-methoxy-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



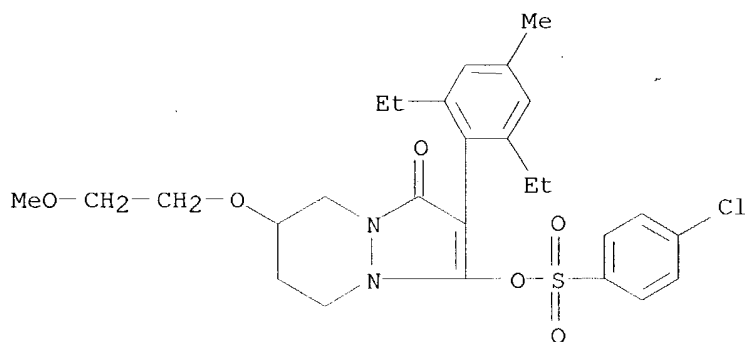
RN 329964-25-2 HCAPLUS

CN Benzenesulfonic acid, 3,5-dichloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

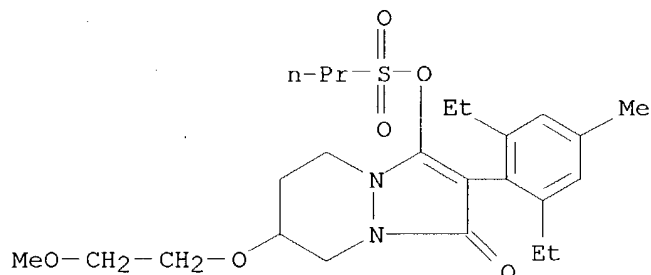


RN 329964-27-4 HCAPLUS

CN Benzenesulfonic acid, 4-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

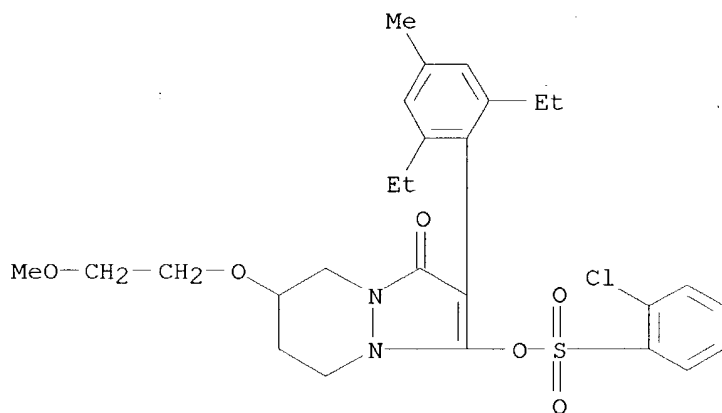


RN 329964-29-6 HCAPLUS

CN 1-Propanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)

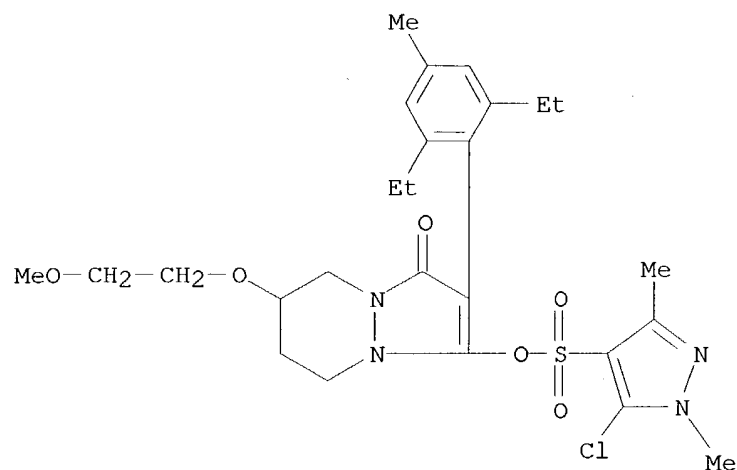
RN 329964-30-9 HCAPLUS

CN Benzenesulfonic acid, 2-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



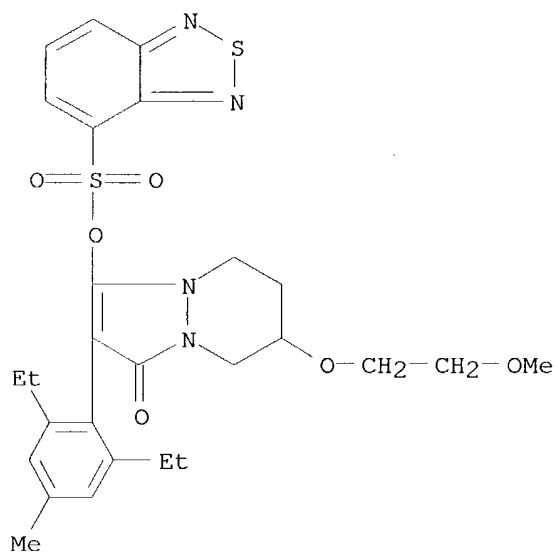
RN 329964-31-0 HCAPLUS

CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329964-33-2 HCAPLUS

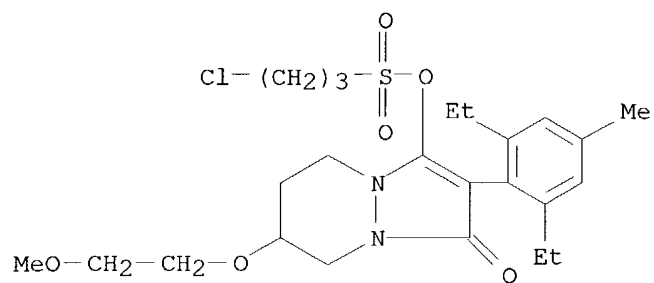
CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329964-34-3 HCAPLUS

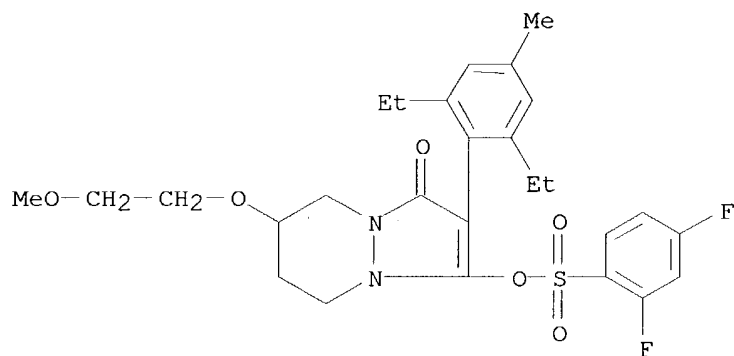
CN 1-Propanesulfonic acid, 3-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





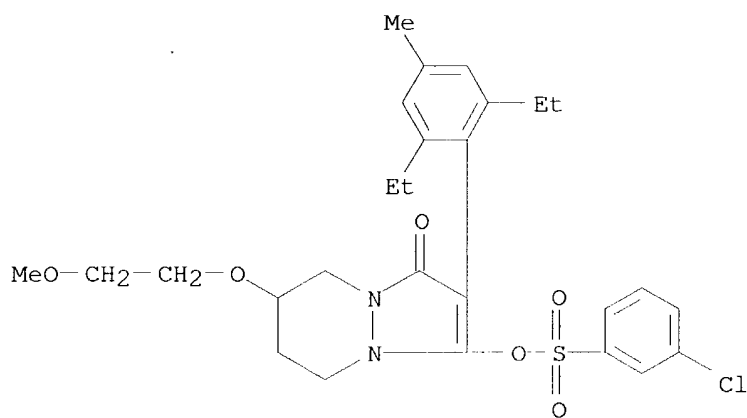
RN 329964-35-4 HCAPLUS

CN Benzenesulfonic acid, 2,4-difluoro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



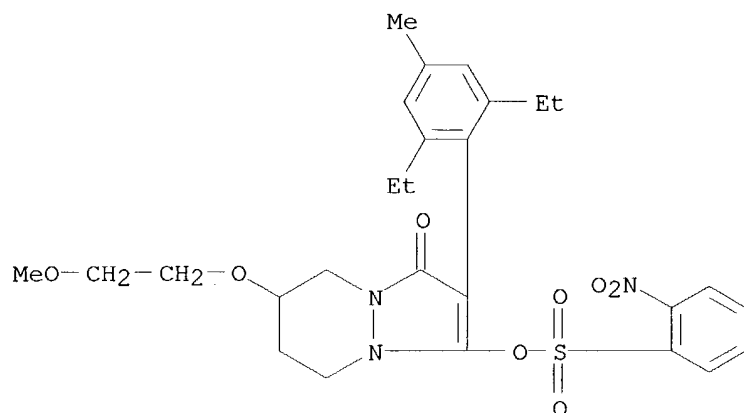
RN 329964-37-6 HCAPLUS

CN Benzenesulfonic acid, 3-chloro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



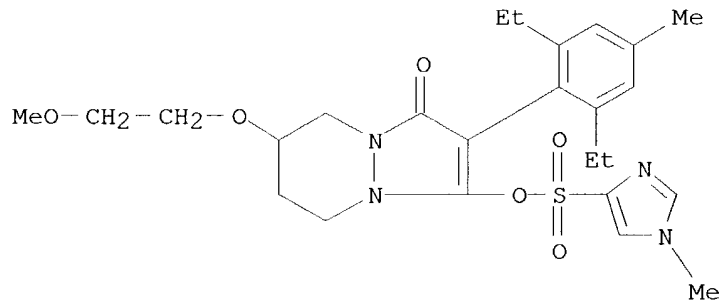
RN 329964-38-7 HCAPLUS

CN Benzenesulfonic acid, 2-nitro-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



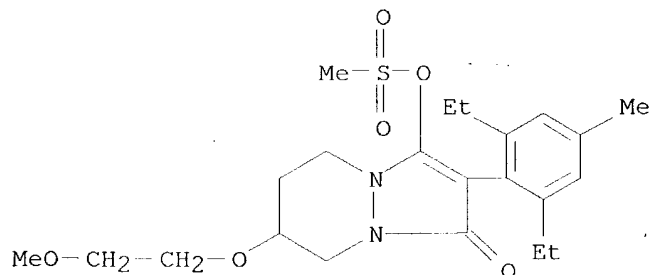
RN 329964-40-1 HCAPLUS

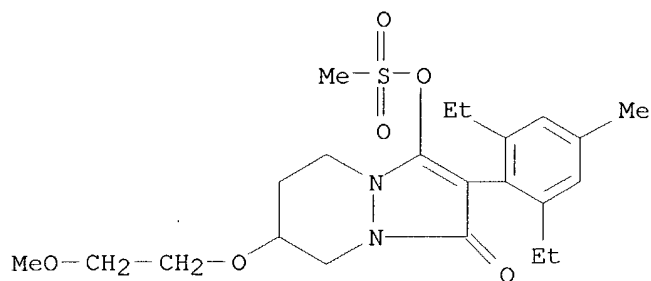
CN 1H-Imidazole-4-sulfonic acid, 1-methyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 329964-41-2 HCAPLUS

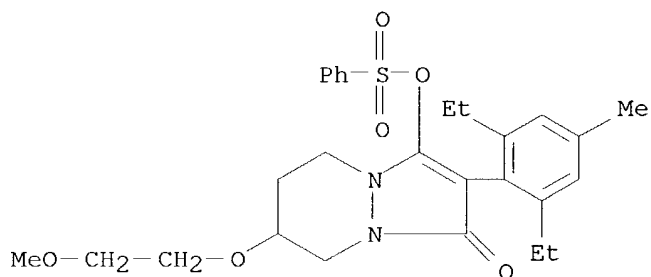
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-3-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)





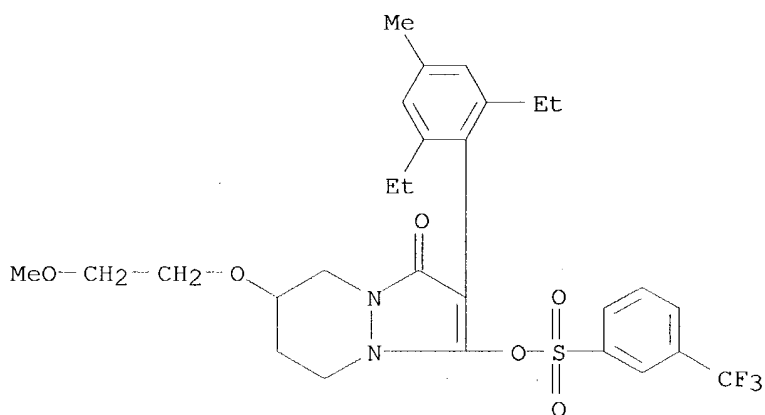
RN 329964-42-3 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-3-[(phenylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



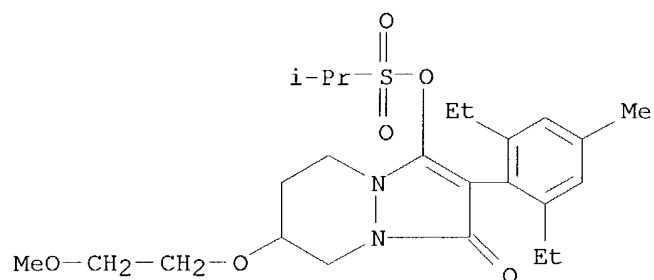
RN 329964-43-4 HCAPLUS

CN Benzenesulfonic acid, 3-(trifluoromethyl)-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



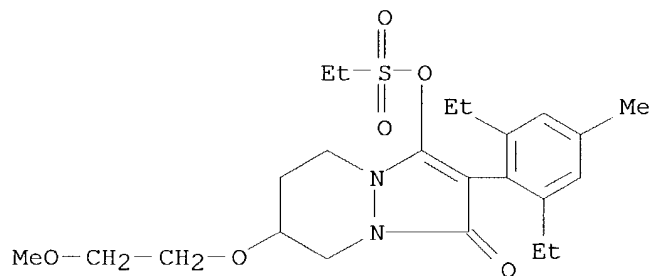
RN 329964-44-5 HCAPLUS

CN 2-Propanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



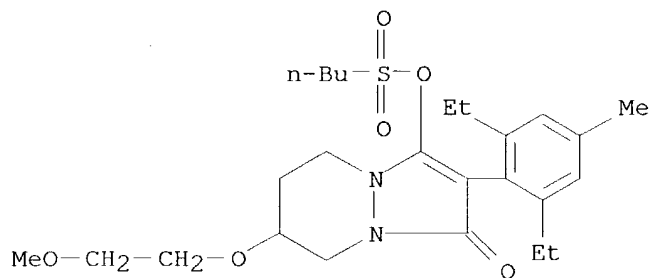
RN 329964-45-6 HCAPLUS

CN Ethanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



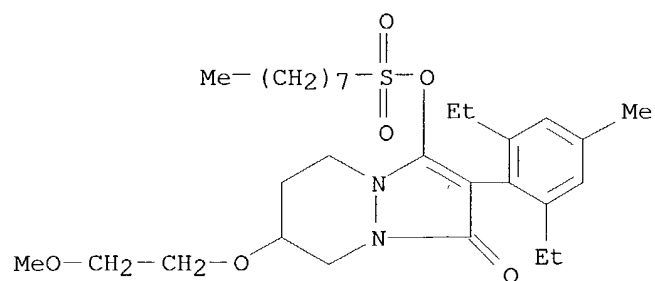
RN 329964-47-8 HCAPLUS

CN 1-Butanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



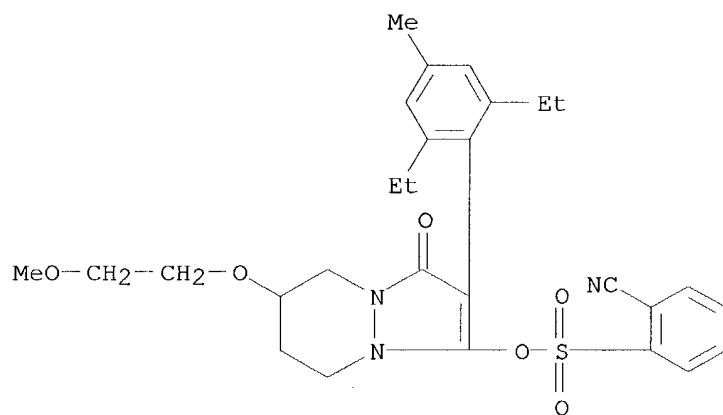
RN 329964-49-0 HCAPLUS

CN 1-Octanesulfonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



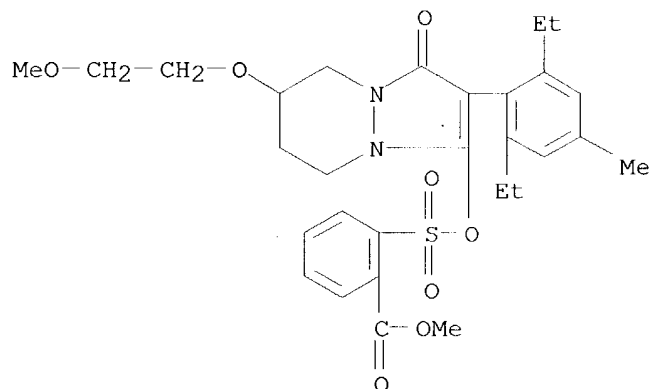
RN 329964-51-4 HCAPLUS

CN Benzenesulfonic acid, 2-cyano-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



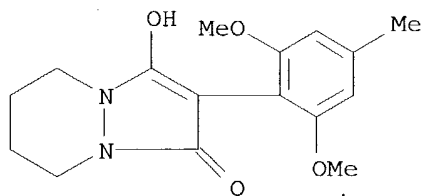
RN 329964-52-5 HCAPLUS

CN Benzoic acid, 2-[[[2-(2,6-diethyl-4-methylphenyl)-5,6,7,8-tetrahydro-7-(2-methoxyethoxy)-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl]oxy]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



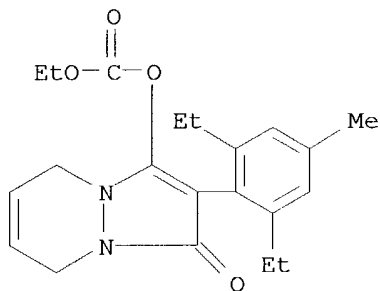
RN 329964-54-7 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 2-(2,6-dimethoxy-4-methylphenyl)-5,6,7,8-tetrahydro-3-hydroxy- (9CI) (CA INDEX NAME)



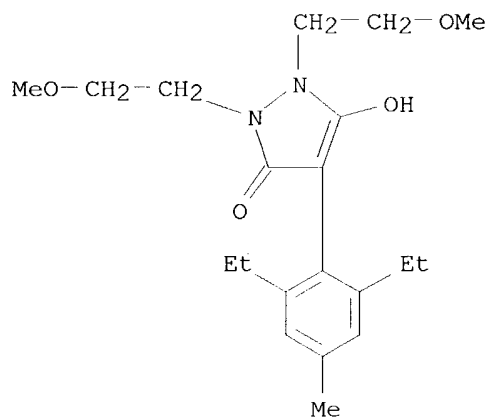
RN 329964-56-9 HCAPLUS

CN Carbonic acid, 2-(2,6-diethyl-4-methylphenyl)-5,8-dihydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ethyl ester (9CI) (CA INDEX NAME)



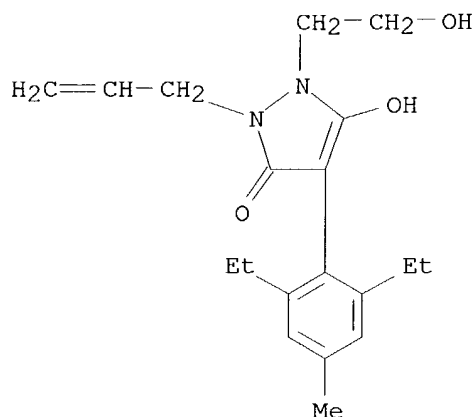
RN 329964-58-1 HCAPLUS

CN 3H-Pyrazol-3-one, 4-(2,6-diethyl-4-methylphenyl)-1,2-dihydro-5-hydroxy-1,2-bis(2-methoxyethyl)- (9CI) (CA INDEX NAME)



RN 329964-60-5 HCAPLUS

CN 3H-Pyrazol-3-one, 4-(2,6-diethyl-4-methylphenyl)-1,2-dihydro-5-hydroxy-1-(2-hydroxyethyl)-2-(2-propenyl)- (9CI) (CA INDEX NAME)



L19 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:185499 HCAPLUS

DOCUMENT NUMBER: 134:203787

TITLE: Preparation of pyrazole derivative herbicides for use with safeners

INVENTOR(S): Glock, Jutta; Friedmann, Adrian Alberto; Cornes, Derek

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO.  | DATE       |
|------------------------|------|----------|--|------------|
| WO 2001017352          | A1   | 20010315 | WO 2000-EP8659   | 20000905   |
| W:                     |      |          | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |            |
| RW:                    |      |          | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |            |
| EP 1209973             | A1   | 20020605 | EP 2000-962443   | 20000905   |
| R:                     |      |          | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL   |            |
| AU 762436              | B2   | 20030626 | AU 2000-74172  | 20000905   |
| US 6555499             | B1   | 20030429 | US 2002-69829  | 20020226   |
| PRIORITY APPLN. INFO.: |      |          | CH 1999-1640   | A 19990907 |
|                        |      |          | WO 2000-EP8659   | W 20000905 |

OTHER SOURCE(S): MARPAT 134:203787

AB The pyrazole herbicides I (R1, R2 = halo, nitro, cyano, alkyl, alkenyl, etc.; R3R4 = alkyleneoxaalkylene; G = H, COCMe3, CO2Et, etc.) are prepd. for use with safeners, selected from cloquintocet, an alkali, alk. earth, sulfonium or ammonium salt of cloquintocet, cloquintocet-mexyl, mafenpyr,

an alkali, alk. earth, sulfonium or ammonium salt of a mefenpyr and mefenpyr-diethyl, and formulated with an additive contg. a vegetable or animal oil or a mineral oil, an alkyl ester of the oil, or mixts. of the oils and oil derivs.

IC ICM A01N043-90

ICS A01N047-18; A01N047-06; A01N043-90; A01N043-56; A01N043-42;  
A01N037-06; A01N037-02; A01N027-00; A01N025-32; A01N047-18;  
A01N043-56; A01N043-42; A01N037-06; A01N037-02; A01N027-00;  
A01N025-32; A01N047-06; A01N043-56; A01N043-42

CC 5-3 (Agrochemical Bioregulators)

Section cross-reference(s): 28

IT **Herbicides**

(prepn. of pyrazole deriv. herbicides for use with safeners)

IT 34604-52-9P **243973-68-4P** 243973-69-5P 243973-70-8P  
243973-71-9P 243973-72-0P 243973-73-1P 243973-74-2P 243973-75-3P  
314020-44-5P 328932-71-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate in prepn. of pyrazole deriv. **herbicide** for use with safeners)

IT **243973-17-3P 243973-18-4P 243973-19-5P**  
**243973-22-0P 243973-23-1P 243973-24-2P**  
**243973-25-3P 243973-26-4P 243973-27-5P**  
**243973-28-6P 243973-29-7P 243973-30-0P**  
**243973-31-1P 243973-32-2P 243973-33-3P**  
**243973-34-4P 328932-72-5P 328932-73-6P**  
**328932-74-7P 328932-75-8P 328932-76-9P**  
**328932-77-0P 328932-78-1P 328932-79-2P**  
**328932-80-5P 328932-81-6P 328932-82-7P**  
**328932-83-8P 328932-84-9P 328932-85-0P**  
**328932-86-1P 328932-88-3P 328932-89-4P**  
**328932-90-7P 328932-91-8P 328932-92-9P**  
**328932-93-0P**

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. as **herbicide** for use with safeners)

IT **243973-20-8P**

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. as **herbicides** for use with safeners)

IT 88349-88-6D, Cloquintocet, mixts. with pyrazole deriv. herbicides  
88349-88-6D, Cloquintocet, sulfonium salt, mixts. with pyrazole deriv.  
herbicides 88350-58-7D, Cloquintocet ammonium salt, mixts. with pyrazole  
deriv. herbicides 99607-70-2D, Cloquintocet-mexyl, mixts. with pyrazole  
deriv. herbicides **135590-91-9D**, Mefenpyr-diethyl, mixts. with  
pyrazole deriv. herbicides **135591-00-3**, Mefenpyr

**135591-00-3D**, sulfonium salt, mixts. with pyrazole deriv.

herbicides **328933-01-3D**, mixts. with pyrazole deriv. herbicides

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(safened herbicidal compns.)

IT **328932-94-1 328932-95-2 328932-96-3**  
**328932-97-4 328932-98-5 328932-99-6**  
**328933-00-2**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(safened **herbicide**)

IT **243973-68-4P**

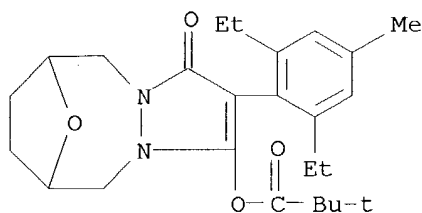
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT



(Reactant or reagent)

(intermediate in prepn. of pyrazole deriv. **herbicide** for use with safeners)

RN 243973-68-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI)  
(CA INDEX NAME)

IT 243973-17-3P 243973-18-4P 243973-19-5P

243973-22-0P 243973-23-1P 243973-24-2P

243973-25-3P 243973-26-4P 243973-27-5P

243973-28-6P 243973-29-7P 243973-30-0P

243973-31-1P 243973-32-2P 243973-33-3P

243973-34-4P 328932-72-5P 328932-73-6P

328932-74-7P 328932-75-8P 328932-76-9P

328932-77-0P 328932-78-1P 328932-79-2P

328932-80-5P 328932-81-6P 328932-82-7P

328932-83-8P 328932-84-9P 328932-85-0P

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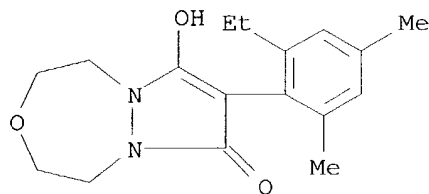
328932-93-0P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. as **herbicide** for use with safeners)

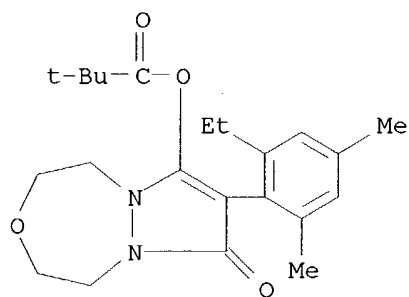
RN 243973-17-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



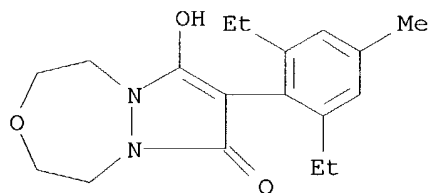
RN 243973-18-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



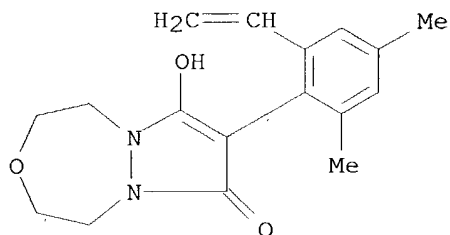
RN 243973-19-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



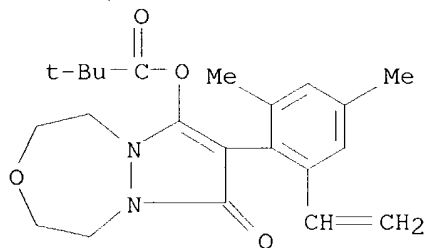
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CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



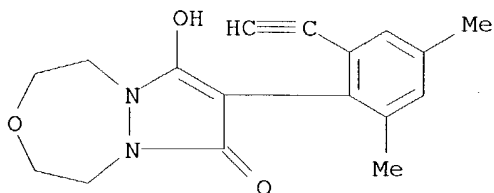
RN 243973-23-1 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



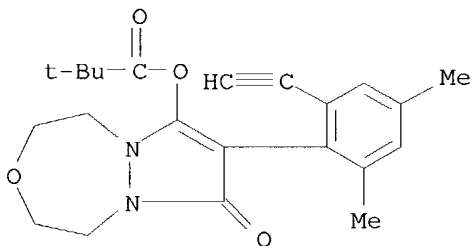
RN 243973-24-2 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



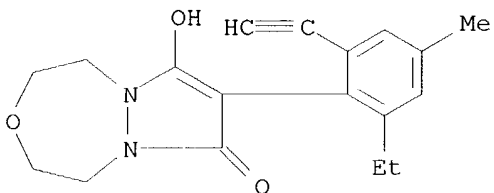
RN 243973-25-3 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



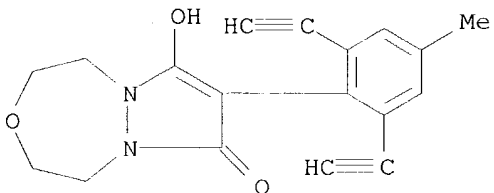
RN 243973-26-4 HCAPLUS

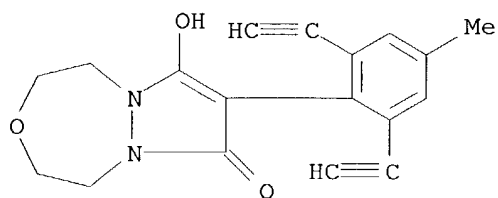
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 243973-27-5 HCAPLUS

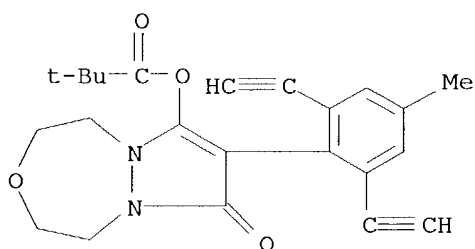
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)





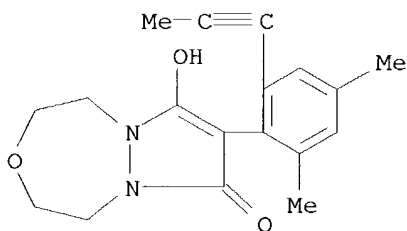
RN 243973-28-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



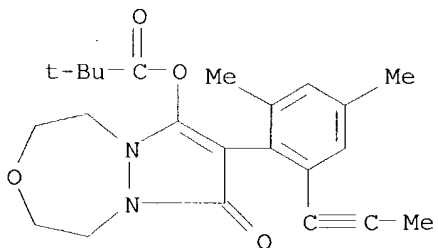
RN 243973-29-7 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



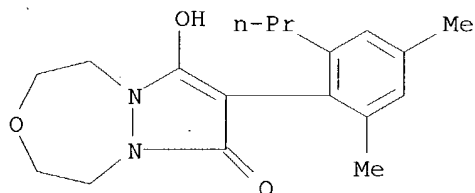
RN 243973-30-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



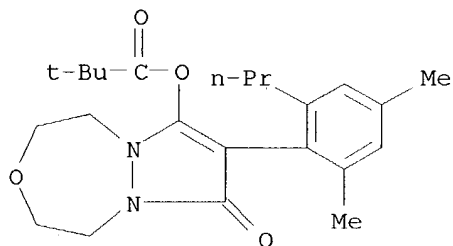
RN 243973-31-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



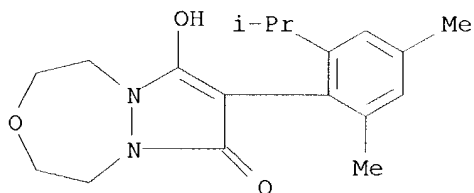
RN 243973-32-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



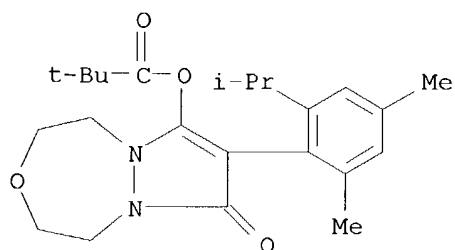
RN 243973-33-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



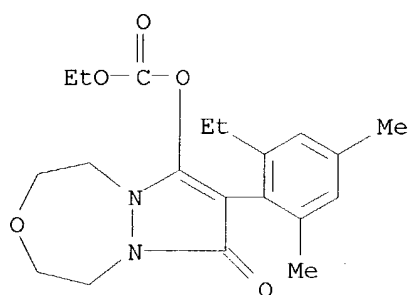
RN 243973-34-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



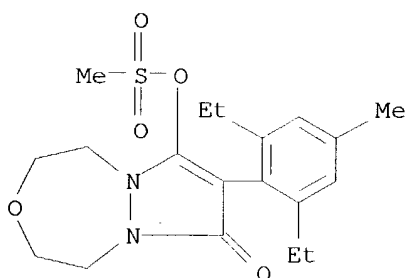
RN 328932-72-5 HCAPLUS

CN Carbonic acid, ethyl 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



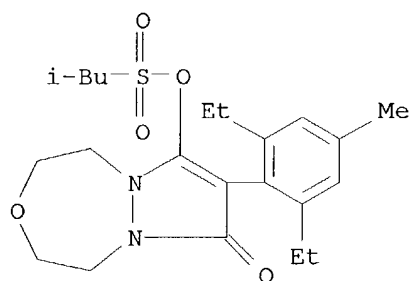
RN 328932-73-6 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-[(methylsulfonyl)oxy]- (9CI) (CA INDEX NAME)



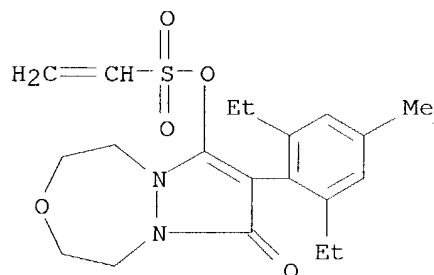
RN 328932-74-7 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



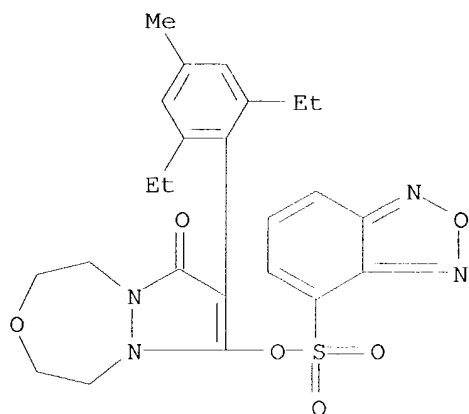
RN 328932-75-8 HCAPLUS

CN Ethenesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



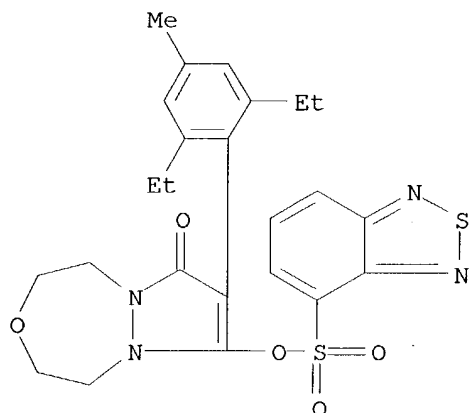
RN 328932-76-9 HCAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



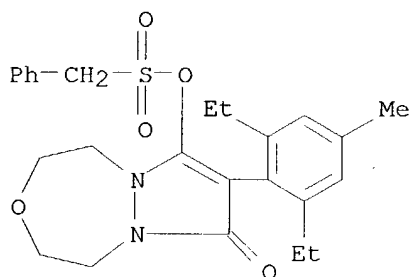
RN 328932-77-0 HCAPLUS

CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



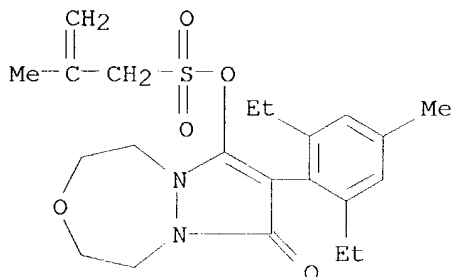
RN 328932-78-1 HCAPLUS

CN Benzenemethanesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



RN 328932-79-2 HCAPLUS

CN 2-Propene-1-sulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

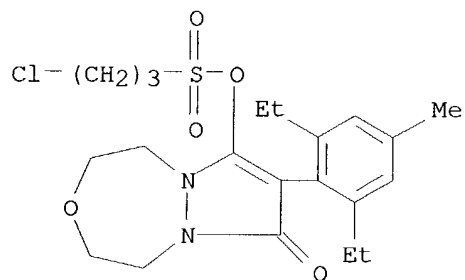


RN 328932-80-5 HCAPLUS

CN 1-Propanesulfonic acid, 3-chloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)

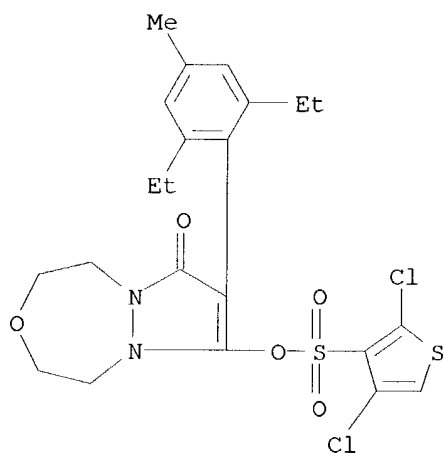


(CA INDEX NAME)



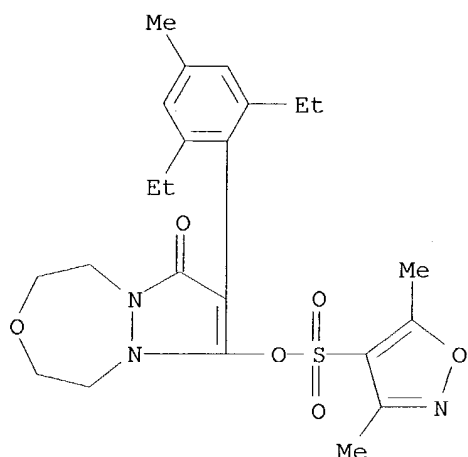
RN 328932-81-6 HCAPLUS

CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 8-(2,6-diethyl-4-methylphenyl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



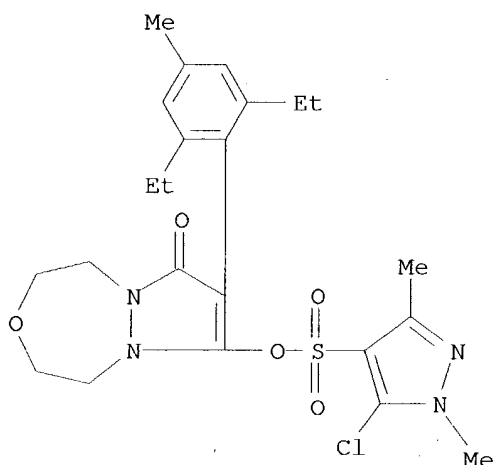
RN 328932-82-7 HCAPLUS

CN 4-Isioxazolesulfonic acid, 3,5-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



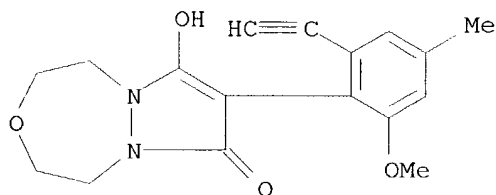
RN 328932-83-8 HCAPLUS

CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



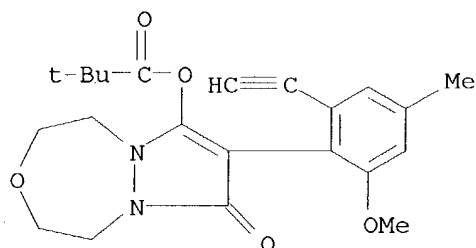
RN 328932-84-9 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



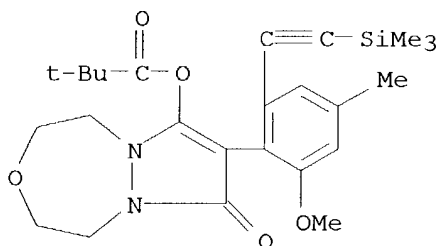
RN 328932-85-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



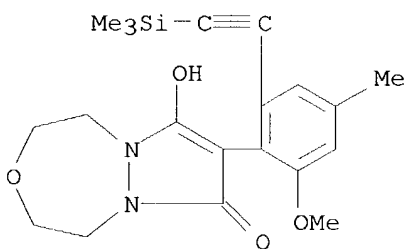
RN 328932-86-1 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1,2,4,5-tetrahydro-8-[2-methoxy-4-methyl-6-[(trimethylsilyl)ethynyl]phenyl]-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



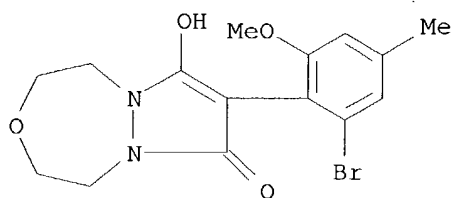
RN 328932-88-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 1,2,4,5-tetrahydro-9-hydroxy-8-[2-methoxy-4-methyl-6-[(trimethylsilyl)ethynyl]phenyl]- (9CI) (CA INDEX NAME)



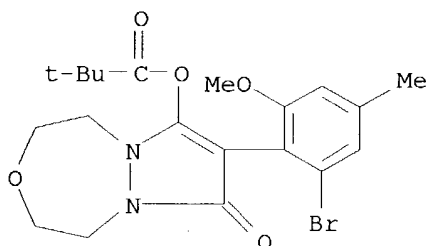
RN 328932-89-4 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-bromo-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



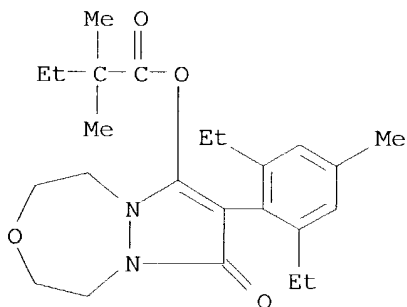
RN 328932-90-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-bromo-6-methoxy-4-methylphenyl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



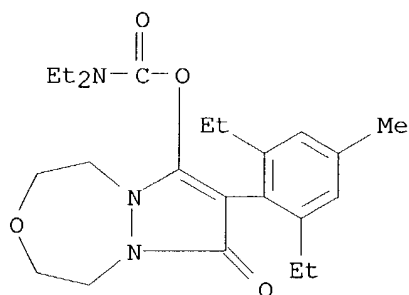
RN 328932-91-8 HCAPLUS

CN Butanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-  
tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



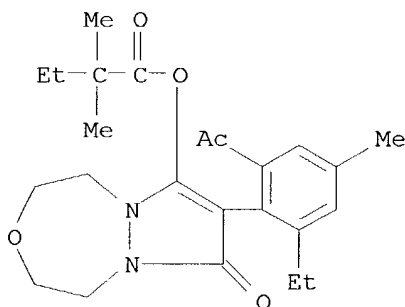
RN 328932-92-9 HCAPLUS

CN Carbamic acid, diethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-  
7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX  
NAME)



RN 328932-93-0 HCAPLUS

CN Butanoic acid, 2,2-dimethyl-, 8-(2-acetyl-6-ethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)

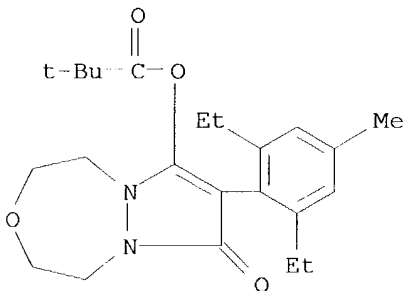


IT 243973-20-8P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. as **herbicides** for use with safeners)

RN 243973-20-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)

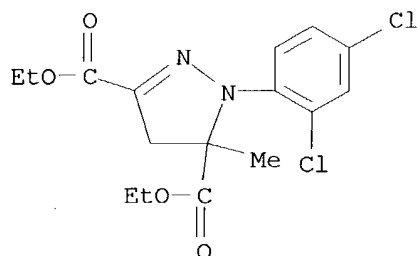


IT 135590-91-9D, Mefenpyr-diethyl, mixts. with pyrazole deriv. herbicides 135591-00-3, Mefenpyr 135591-00-3D, sulfonium salt, mixts. with pyrazole deriv. herbicides 328933-01-3D, mixts. with pyrazole deriv. herbicides

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(safened herbicidal compns.)

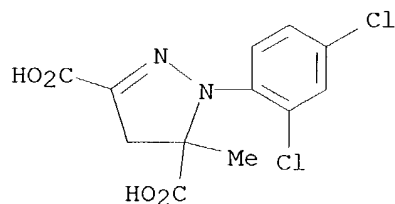
RN 135590-91-9 HCAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



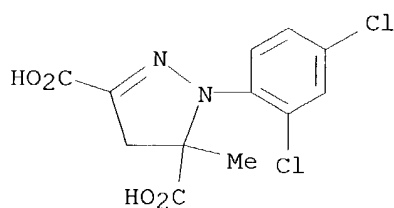
RN 135591-00-3 HCAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl- (9CI) (CA INDEX NAME)



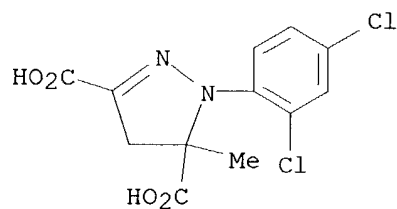
RN 135591-00-3 HCAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl- (9CI) (CA INDEX NAME)



RN 328933-01-3 HCAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diammonium salt (9CI) (CA INDEX NAME)



● 2 NH<sub>3</sub>

IT 328932-94-1 328932-95-2 328932-96-3  
328932-97-4 328932-98-5 328932-99-6  
328933-00-2

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(safened **herbicide**)

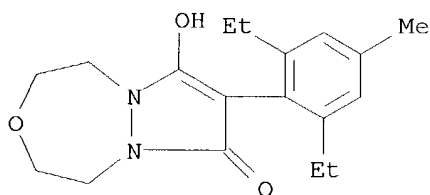
RN 328932-94-1 HCAPLUS

CN Acetic acid, [(5-chloro-8-quinolinyl)oxy]-, 1-methylhexyl ester, mixt.  
with 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy-7H-  
pyrazolo[1,2-d][1,4]oxadiazepin-7-one (9CI) (CA INDEX NAME)

CM 1

CRN 243973-19-5

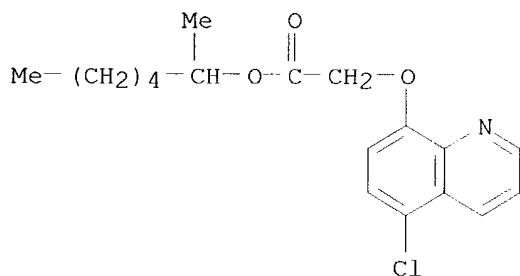
CMF C18 H24 N2 O3



CM 2

CRN 99607-70-2

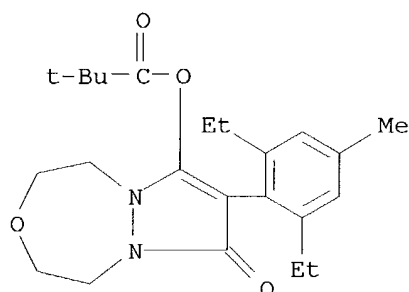
CMF C18 H22 Cl N O3



RN 328932-95-2 HCAPLUS  
 CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

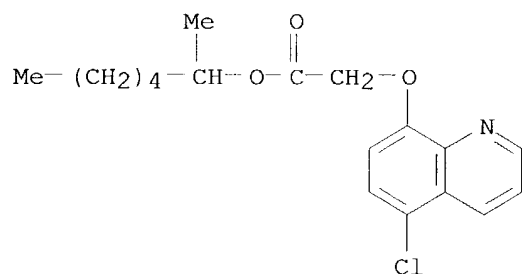
CM 1

CRN 243973-20-8  
 CMF C23 H32 N2 O4



CM 2

CRN 99607-70-2  
 CMF C18 H22 Cl N O3

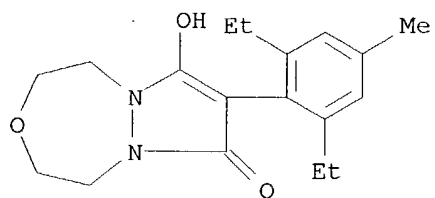


RN 328932-96-3 HCAPLUS  
 CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy-, mixt. with Merge (9CI) (CA INDEX NAME)

CM 1

CRN 243973-19-5  
 CMF C18 H24 N2 O3





CM 2

CRN 147230-14-6

CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

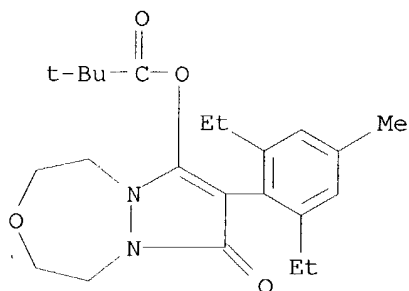
RN 328932-97-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with Merge (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8

CMF C23 H32 N2 O4



CM 2

CRN 147230-14-6

CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

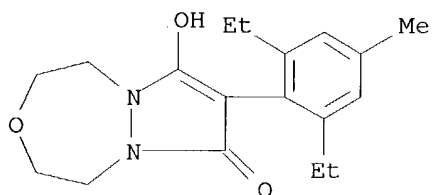
RN 328932-98-5 HCAPLUS

CN Acetic acid, [(5-chloro-8-quinolinyl)oxy]-, 1-methylhexyl ester, mixt. with 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one and Merge (9CI) (CA INDEX NAME)

CM 1

CRN 243973-19-5

CMF C18 H24 N2 O3



CM 2

CRN 147230-14-6

CMF Unspecified

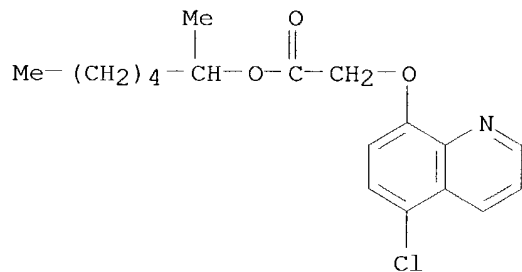
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 3

CRN 99607-70-2

CMF C18 H22 Cl N O3



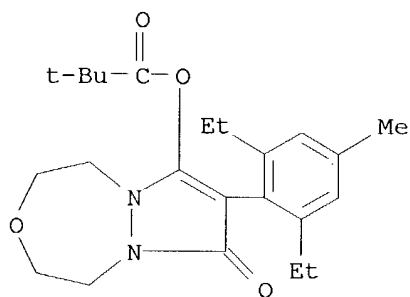
RN 328932-99-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with Merge and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8

CMF C23 H32 N2 O4



CM 2

CRN 147230-14-6

CMF Unspecified

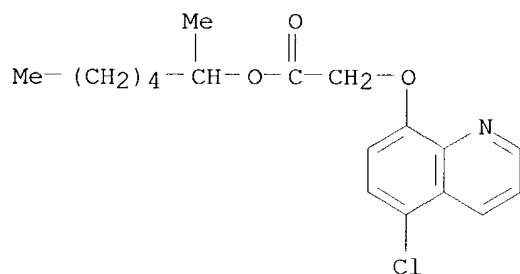
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

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CRN 99607-70-2

CMF C18 H22 Cl N O3



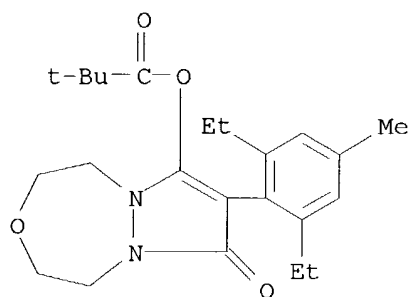
RN 328933-00-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with Amigo and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8

CMF C23 H32 N2 O4



CM 2

CRN 159605-28-4

CMF Unspecified

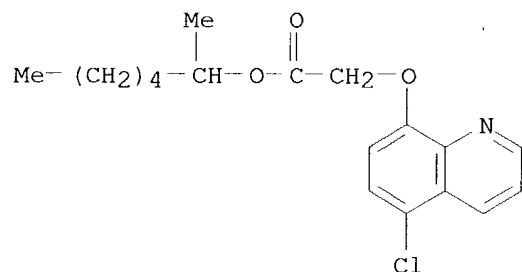
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\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 3

CRN 99607-70-2

CMF C18 H22 Cl N O3



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:185498 HCAPLUS

DOCUMENT NUMBER: 134:218317

TITLE: Optionally-safened synergistic herbicidal compositions  
and preparation of the pyrazole derivative component

INVENTOR(S): Glock, Jutta; Friedmann, Adrian Alberto; Cornes, Derek

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

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WO 2001017351      A1      20010315      WO 2000-EP8658      20000905
W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
    CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
    HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
    LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
    SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
    YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW:  GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
    DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
    CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
EP 1209972          A1      20020605          EP 2000-960605      20000905
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    IE, SI, LT, LV, FI, RO, MK, CY, AL
AT 241272          E      20030615          AT 2000-960605      20000905
AU 762346          B2      20030626          AU 2000-72844       20000905
PRIORITY APPLN. INFO.:
                                CH 1999-1641      A      19990907
                                WO 2000-EP8658      W      20000905
OTHER SOURCE(S):      MARPAT 134:218317
AB  An optionally safened synergistic selective herbicidal compn. comprises:
    (a) a pyrazole deriv. I (R1, R3 = halo, nitro, cyano, alkyl, alkenyl,
    etc.; R4R5 = CH2CH2OCH2CH2, etc.; G = H COCMe3, CO2Et, etc.); (b) a
    herbicide selected from phenoxyphenoxypropionic acids, hydroxylamines,
    sulfonylureas, imidazolinones, pyrimidines, triazines, ureas, PPO,
    chloroacetanilides, phenoxyacetic acids, triazinones, dinitroanilines,
    azinones, carbamates, oxyacetamides, thiolcarbamates, azole-ureas, benzoic
    acids, anilides, nitriles, triones and sulfonamides, as well as from
    amitrol, benfuresate, bentazone, cinmethylin, clomazone, clopyralid,
    difenzoquat, dithiopyr, ethofumesate, flurochloridone, indanofan,
    isoxaben, oxaziclonemefone, pyridate, pyridafol, quinclorac, quinmerac,
    tridiphane and flamprop; and optionally (c) a safener selected from
    cloquintocet, an alkali, alk. earth, sulfonium or ammonium salt of
    cloquintocet, cloquintocet-mexyl, mefenpyr, an alkali, alk. earth,
    sulfonium or ammonium salt of mefenpyr and mefenpyr-diethyl; and/or (d) an
    additive comprising an oil of vegetable or animal origin, a mineral oil,
    the alkyl esters thereof or mixts. of these oils and oil derivs. The
    prepn. of I is given.
IC  ICM A01N043-90
    ICS A01N025-32; A01N043-90; A01N043-76; A01N043-40; A01N035-10;
    A01N027-00
CC  5-3 (Agrochemical Bioregulators)
    Section cross-reference(s): 28
IT  Herbicides
    (synergistic; pptionally-safened synergistic herbicidal compns. and
    prepn. of the pyrazole deriv. component)
IT  243973-17-3P 243973-18-4P 243973-19-5P
    243973-20-8P 243973-21-9P 243973-22-0P
    243973-23-1P 243973-24-2P 243973-25-3P
    243973-26-4P 243973-27-5P 243973-28-6P
    243973-29-7P 243973-30-0P 243973-31-1P
    243973-32-2P 243973-33-3P 243973-34-4P
    243973-68-4P 328932-73-6P 328932-74-7P
    328932-75-8P 328932-76-9P 328932-77-0P
    328932-78-1P 328932-80-5P 328932-81-6P
    328932-82-7P 328932-83-8P 328932-84-9P
    328932-85-0P 328932-86-1P 328932-88-3P

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328932-89-4P 328932-90-7P 328932-91-8P

328932-92-9P 328932-93-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. as component in optionally-safened synergistic  
**herbicidal** compns.)

IT 88349-88-6D, Cloquintocet, mixts. with pyrazole deriv. herbicides and a second herbicide 88349-88-6D, Cloquintocet, sulfonium salt, mixts. with pyrazole deriv. herbicides and a second herbicide 88350-58-7D, Cloquintocet ammonium salt, mixts. with pyrazole deriv. herbicides and a second herbicide 99607-70-2D, Cloquintocet-mexyl, mixts. with pyrazole deriv. herbicides and a second herbicide **135590-91-9D**, Mefenpyr-diethyl, mixts. with pyrazole deriv. herbicides and a second herbicide **135591-00-3D**, Mefenpyr, mixts. with pyrazole deriv. herbicides and a second herbicide **135591-00-3D**, Mefenpyr, sulfonium salt, mixts. with pyrazole deriv. herbicides and a second herbicide **328933-01-3D**, Mefenpyr diammonium salt, mixts. with pyrazole deriv. herbicides and a second herbicide

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(safened synergistic herbicidal compns.)

IT 329280-32-2P 329280-33-3P 329280-34-4P  
329280-35-5P 329280-36-6P 329280-37-7P  
329280-38-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(safened synergistic **herbicidal** compns.)

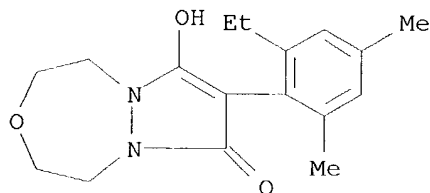
IT 243973-17-3P 243973-18-4P 243973-19-5P  
243973-20-8P 243973-21-9P 243973-22-0P  
243973-23-1P 243973-24-2P 243973-25-3P  
243973-26-4P 243973-27-5P 243973-28-6P  
243973-29-7P 243973-30-0P 243973-31-1P  
243973-32-2P 243973-33-3P 243973-34-4P  
243973-68-4P 328932-73-6P 328932-74-7P  
328932-75-8P 328932-76-9P 328932-77-0P  
328932-78-1P 328932-80-5P 328932-81-6P  
328932-82-7P 328932-83-8P 328932-84-9P  
328932-85-0P 328932-86-1P 328932-88-3P  
328932-89-4P 328932-90-7P 328932-91-8P  
328932-92-9P 328932-93-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. as component in optionally-safened synergistic  
**herbicidal** compns.)

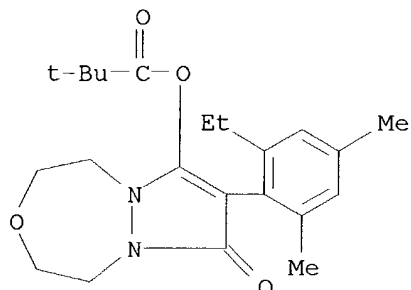
RN 243973-17-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



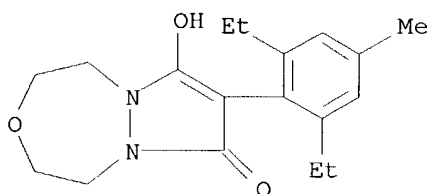
RN 243973-18-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



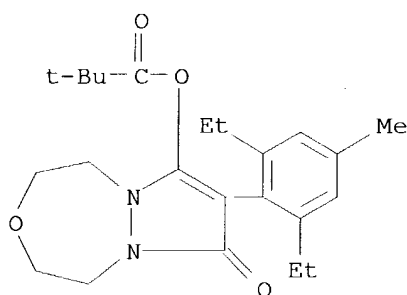
RN 243973-19-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



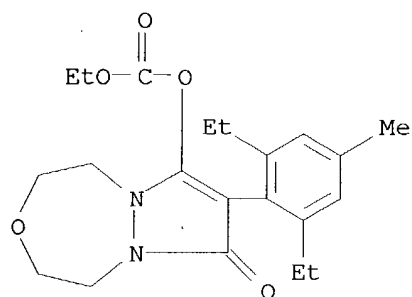
RN 243973-20-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



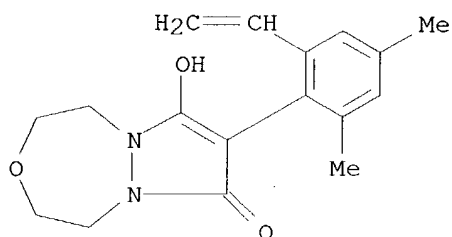
RN 243973-21-9 HCAPLUS

CN Carbonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ethyl ester (9CI) (CA INDEX NAME)



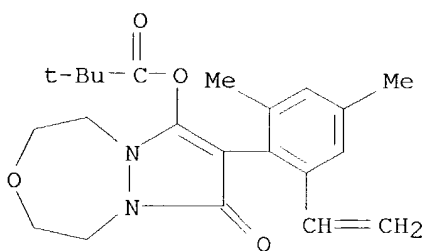
RN 243973-22-0 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



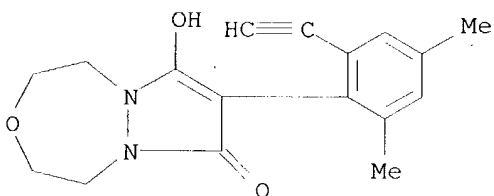
RN 243973-23-1 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



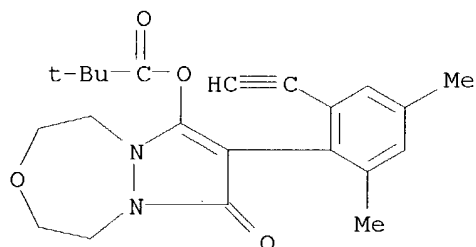
RN 243973-24-2 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



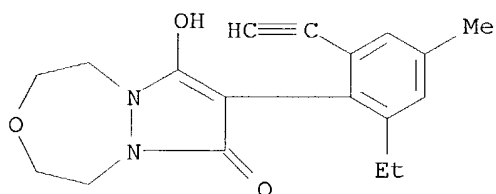


RN 243973-25-3 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)

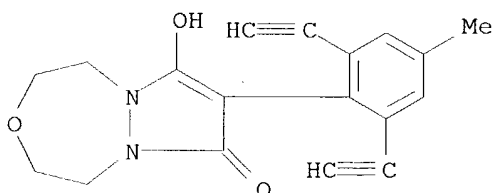
RN 243973-26-4 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



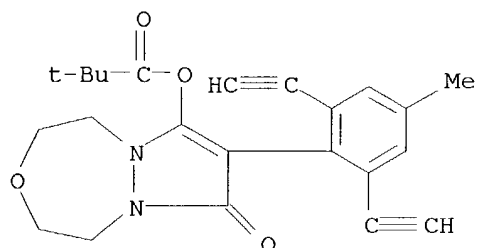
RN 243973-27-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



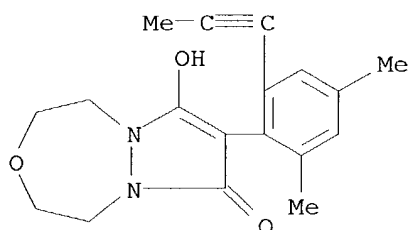
RN 243973-28-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



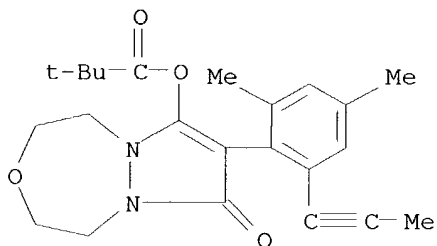
RN 243973-29-7 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



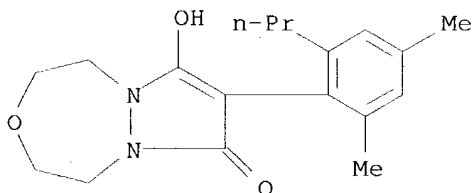
RN 243973-30-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



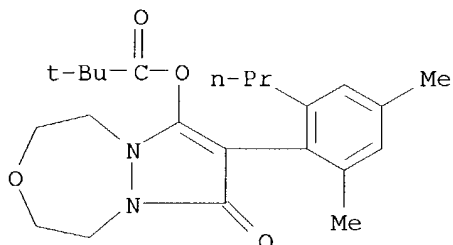
RN 243973-31-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



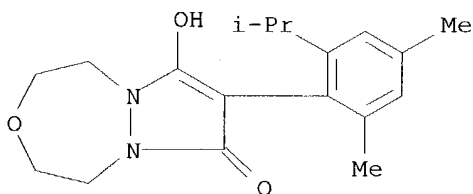
RN 243973-32-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



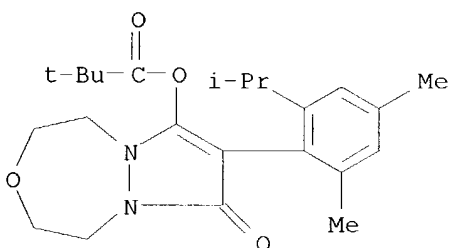
RN 243973-33-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



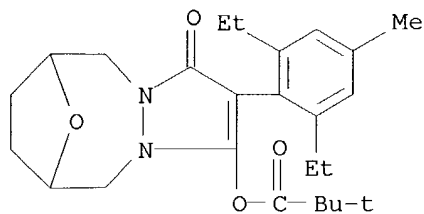
RN 243973-34-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



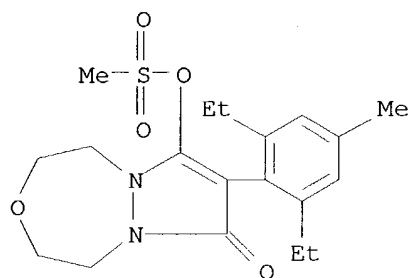
RN 243973-68-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI)  
(CA INDEX NAME)



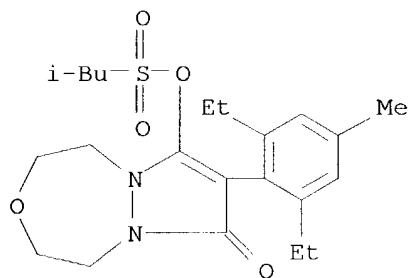
RN 328932-73-6 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-[(methanesulfonyl)oxy]- (9CI) (CA INDEX NAME)



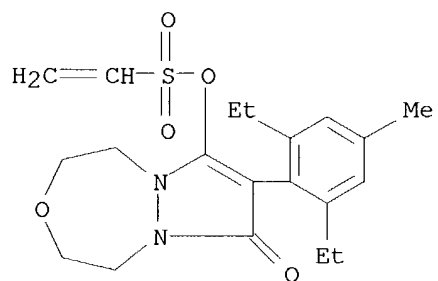
RN 328932-74-7 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



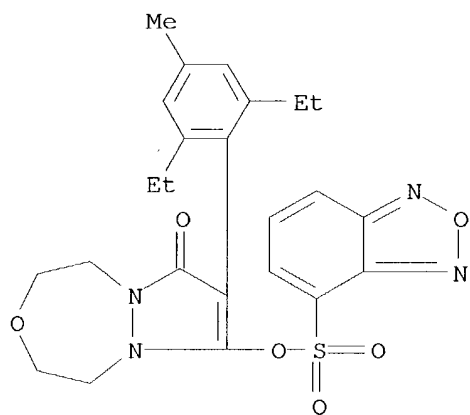
RN 328932-75-8 HCAPLUS

CN Ethanesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



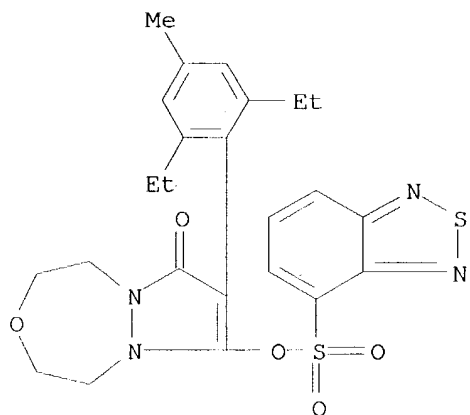
RN 328932-76-9 HCAPLUS

CN 2,1,3-Benzoxadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



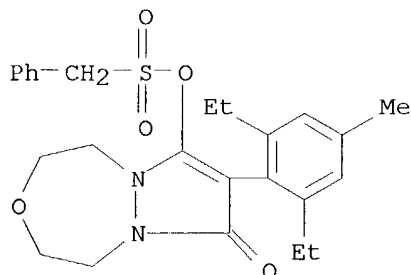
RN 328932-77-0 HCAPLUS

CN 2,1,3-Benzothiadiazole-4-sulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-  
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(9CI) (CA INDEX NAME)



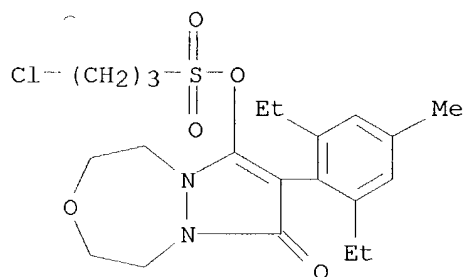
RN 328932-78-1 HCAPLUS

CN Benzenemethanesulfonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



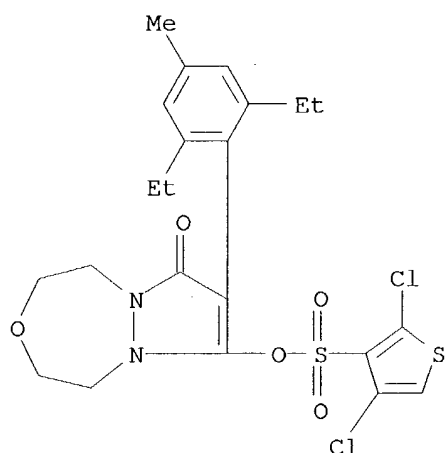
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CN 1-Propanesulfonic acid, 3-chloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



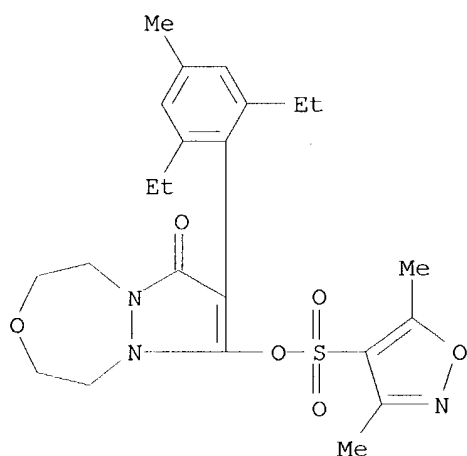
RN 328932-81-6 HCAPLUS

CN 3-Thiophenesulfonic acid, 2,4-dichloro-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



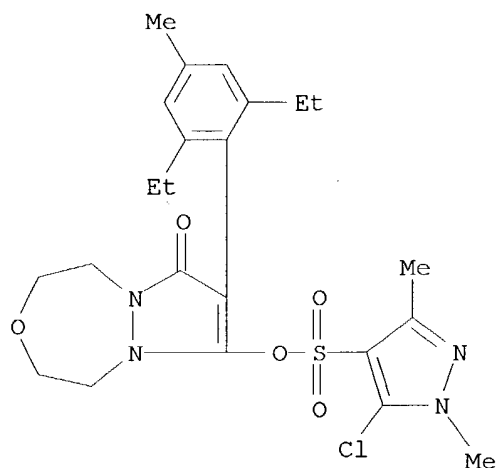
RN 328932-82-7 HCAPLUS

CN 4-Isoxazolesulfonic acid, 3,5-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



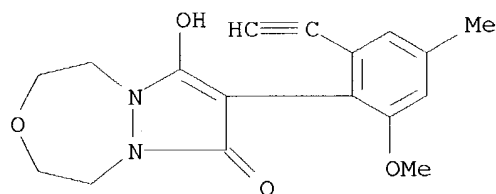
RN 328932-83-8 HCAPLUS

CN 1H-Pyrazole-4-sulfonic acid, 5-chloro-1,3-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



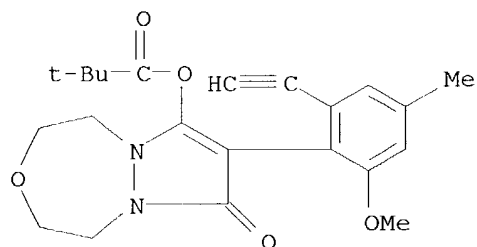
RN 328932-84-9 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 328932-85-0 HCAPLUS

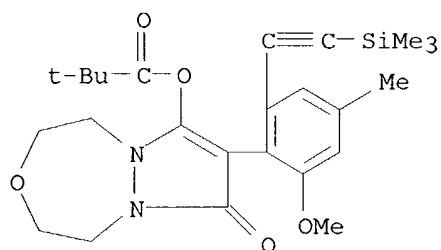
CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 328932-86-1 HCAPLUS

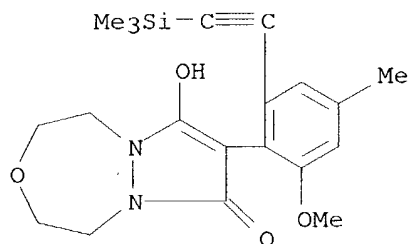
CN Propanoic acid, 2,2-dimethyl-, 1,2,4,5-tetrahydro-8-[2-methoxy-4-methyl-6-[(trimethylsilyl)ethynyl]phenyl]-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)





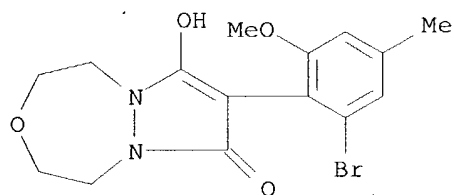
RN 328932-88-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 1,2,4,5-tetrahydro-9-hydroxy-8-[2-methoxy-4-methyl-6-[(trimethylsilyl)ethynyl]phenyl]- (9CI) (CA INDEX NAME)



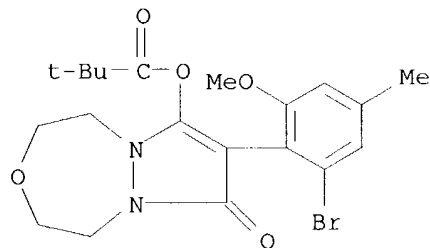
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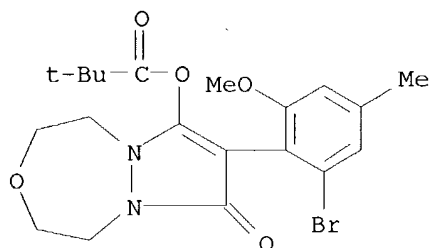
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-bromo-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 328932-90-7 HCAPLUS

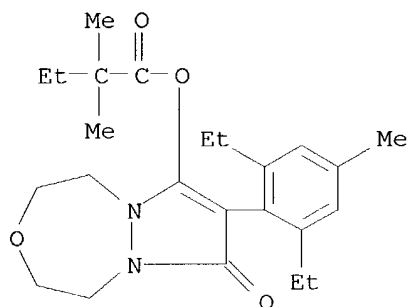
CN Propanoic acid, 2,2-dimethyl-, 8-(2-bromo-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)





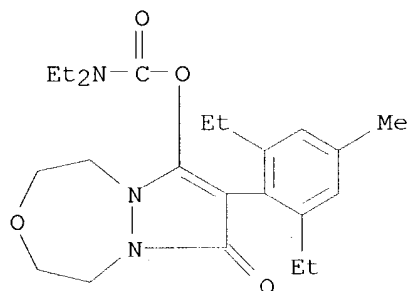
RN 328932-91-8 HCAPLUS

CN Butanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



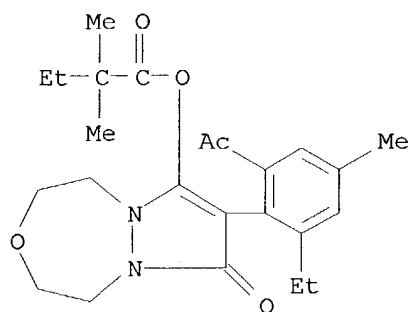
RN 328932-92-9 HCAPLUS

CN Carbamic acid, diethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)

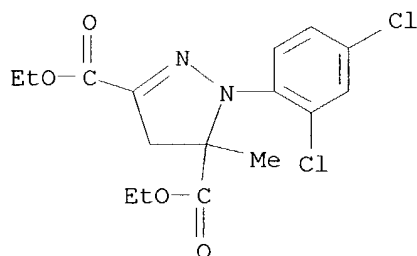


RN 328932-93-0 HCAPLUS

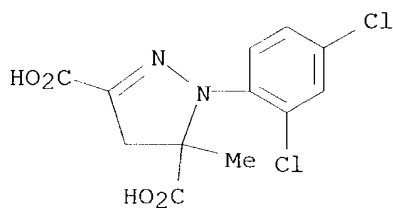
CN Butanoic acid, 2,2-dimethyl-, 8-(2-acetyl-6-ethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



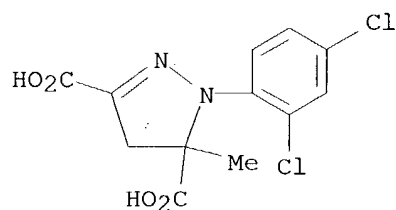
- IT **135590-91-9D**, Mefenpyr-diethyl, mixts. with pyrazole deriv. herbicides and a second herbicide **135591-00-3D**, Mefenpyr, mixts. with pyrazole deriv. herbicides and a second herbicide **328933-01-3D**, Mefenpyr diammonium salt, mixts. with pyrazole deriv. herbicides and a second herbicide  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (safened synergistic herbicidal compns.)  
 RN 135590-91-9 HCAPLUS  
 CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester (9CI) (CA INDEX NAME)



- RN 135591-00-3 HCAPLUS  
 CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl- (9CI) (CA INDEX NAME)



- RN 328933-01-3 HCAPLUS  
 CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diammonium salt (9CI) (CA INDEX NAME)



● 2 NH<sub>3</sub>

IT 329280-32-2P 329280-33-3P 329280-34-4P

329280-35-5P 329280-36-6P 329280-37-7P

329280-38-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(safened synergistic **herbicidal** compns.)

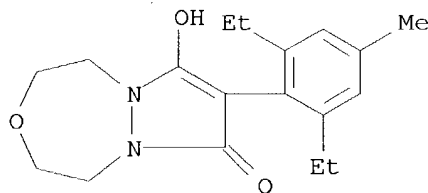
RN 329280-32-2 HCAPLUS

CN Propanoic acid, 2-[4-[(5-chloro-3-fluoro-2-pyridinyl)oxy]phenoxy]-,  
2-propynyl ester, (2R)-, mixt. with 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-  
tetrahydro-9-hydroxy-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one,  
hydrocarbon oils and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate  
(9CI) (CA INDEX NAME)

CM 1

CRN 243973-19-5

CMF C18 H24 N2 O3

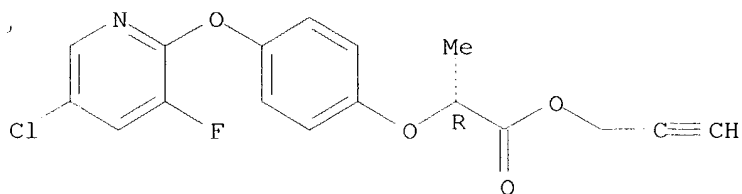


CM 2

CRN 105512-06-9

CMF C17 H13 Cl F N O4

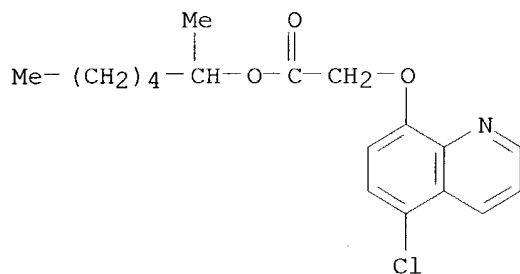
Absolute stereochemistry.



CM 3

CRN 99607-70-2

CMF C18 H22 Cl N O3



CM 4

CRN 8020-83-5

CMF Unspecified

CCI MAN, CTS

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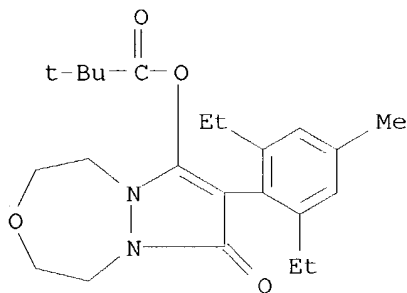
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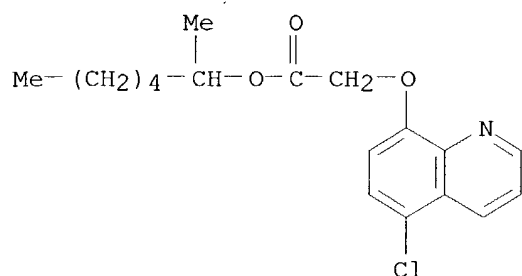
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with 2-(2-chloroethoxy)-N-[[4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]benzenesulfonamide and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8

CMF C23 H32 N2 O4

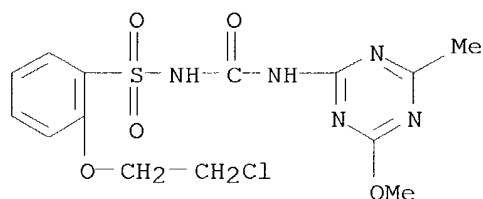




CM 3

CRN 82097-50-5

CMF C14 H16 Cl N5 O5 S



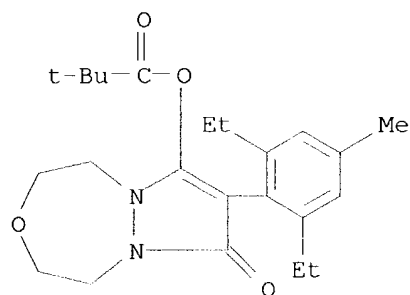
RN 329280-34-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with 2-(2-chloroethoxy)-N-[[4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]benzenesulfonamide, Merge and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8

CMF C23 H32 N2 O4



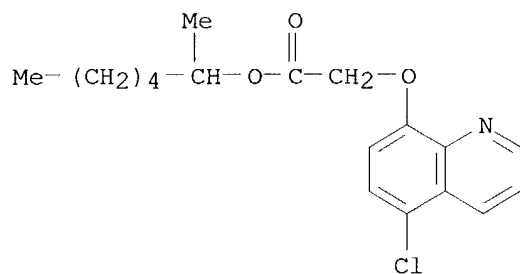
CM 2

CRN 147230-14-6  
 CMF Unspecified  
 CCI MAN

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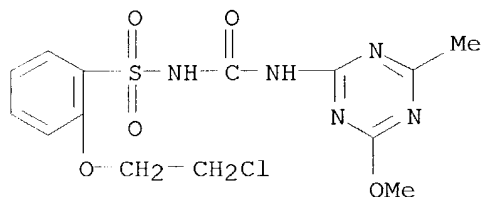
CM 3

CRN 99607-70-2  
 CMF C18 H22 Cl N O3



CM 4

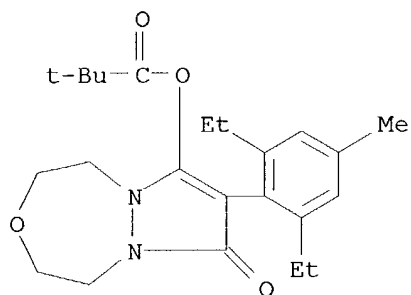
CRN 82097-50-5  
 CMF C14 H16 Cl N5 O5 S



RN 329280-35-5 HCAPLUS  
 CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with ethyl 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoate and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

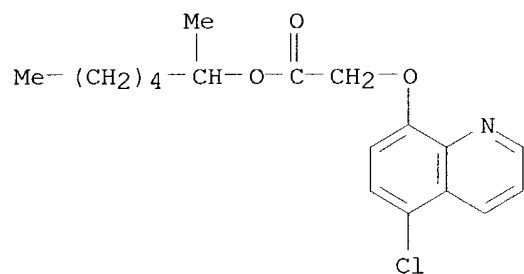
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 CMF C23 H32 N2 O4



CM 2

CRN 99607-70-2

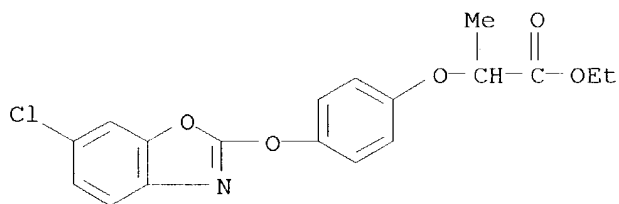
CMF C18 H22 Cl N O3



CM 3

CRN 66441-23-4

CMF C18 H16 Cl N O5



RN 329280-36-6 HCAPLUS

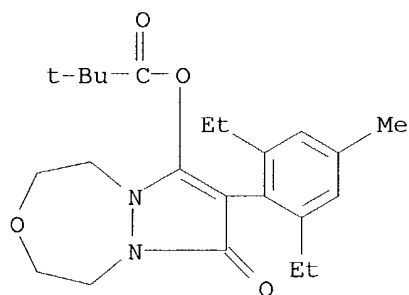
CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with ethyl 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoate, Merge and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

CRN 243973-20-8



CMF C23 H32 N2 O4



CM 2

CRN 147230-14-6

CMF Unspecified

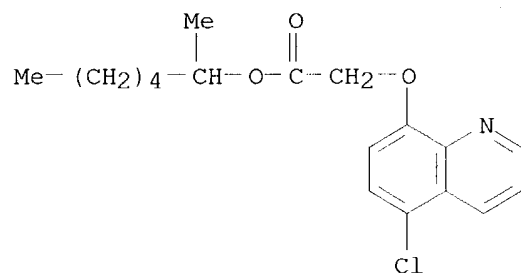
CCI MAN

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CM 3

CRN 99607-70-2

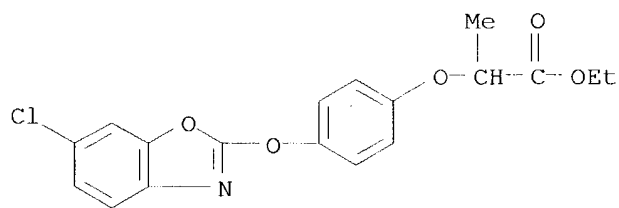
CMF C18 H22 Cl N O3



CM 4

CRN 66441-23-4

CMF C18 H16 Cl N O5



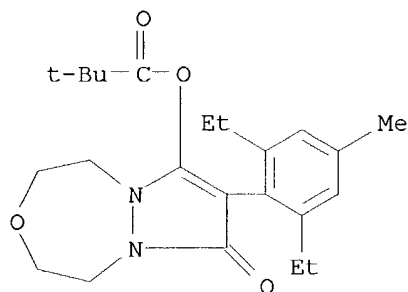
RN 329280-37-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester, mixt. with 2-[1-(ethoxyimino)propyl]-3-hydroxy-5-(2,4,6-trimethylphenyl)-2-cyclohexen-1-one and 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (9CI) (CA INDEX NAME)

CM 1

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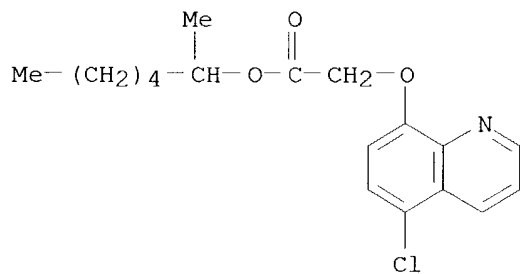
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CM 2

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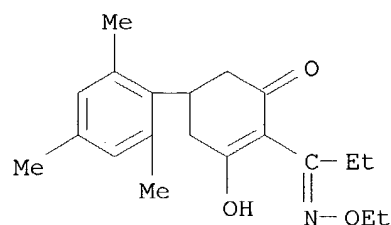
CMF C18 H22 Cl N O3



CM 3

CRN 87820-88-0

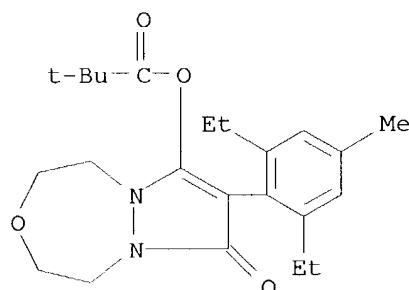
CMF C20 H27 N O3



RN 329280-38-8 HCAPLUS  
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CM 1

CRN 243973-20-8  
 CMF C23 H32 N2 O4



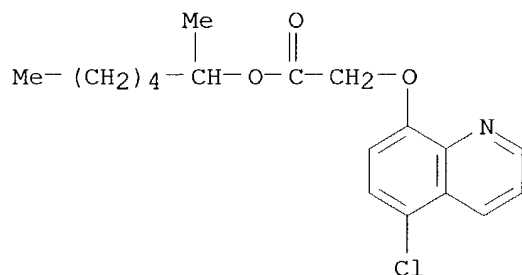
CM 2

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 CMF Unspecified  
 CCI MAN

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CM 3

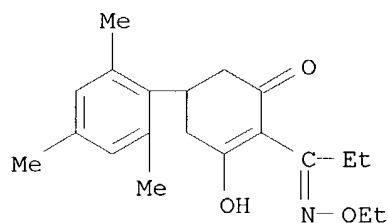
CRN 99607-70-2  
 CMF C18 H22 Cl N O3



CM 4

CRN 87820-88-0

CMF C20 H27 N O3



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:573799 HCAPLUS

DOCUMENT NUMBER: 133:164053

TITLE: Preparation of 3-hydroxy-4-aryl-5-pyrazolines as herbicides

INVENTOR(S): Muhlebach, Michel; Glock, Jutta; Maetzke, Thomas; Stoller, Andre

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.

SOURCE: PCT Int. Appl., 113 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 2000047585   | A1   | 20000817 | WO 1999-EP898   | 19990211 |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                 |          |

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,  
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,  
CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9926233 A1 20000829 AU 1999-26233 19990211

PRIORITY APPLN. INFO.: WO 1999-EP898 A 19990211

OTHER SOURCE(S): MARPAT 133:164053

AB The title compds. [I; R1-R3 = halo, NO2, CN, etc.; R4R5 together = (CH2)2O(CH2)2, (CH2)2OCH2CH(Me), etc.; G = H, COtBu, CO2Et] which are suitable for use as herbicides, in particular in combination with herbicide-antagonistically effective compds., were prepd. E.g., a multi-step synthesis of I [R1-R3 = Me; R4R5 = (CH2)2O(CH2)2; G = H] which showed 100% control against Lolium, Setaria, Panicum, Sorghum, and Echinochloa at 500 g of ai/ha in pre-emergence test, was given.

IC ICM C07D498-04

ICS A01N043-56; A01N043-90

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 5

IT **Herbicides**

(prepn. of 3-hydroxy-4-aryl-5-pyrazolines as herbicides)

IT **243973-15-1P 243973-19-5P 243973-67-3P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of 3-hydroxy-4-aryl-5-pyrazolines as **herbicides**)

IT **243973-16-2P 243973-17-3P 243973-18-4P**

**243973-20-8P 243973-21-9P 243973-22-0P**

**243973-23-1P 243973-24-2P 243973-25-3P**

**243973-26-4P 243973-27-5P 243973-28-6P**

**243973-29-7P 243973-30-0P 243973-31-1P**

**243973-32-2P 243973-33-3P 243973-34-4P**

**243973-35-5P 243973-36-6P 243973-37-7P**

**243973-38-8P 243973-42-4P 243973-45-7P**

**243973-48-0P 243973-51-5P 243973-53-7P**

**243973-54-8P 243973-56-0P 243973-58-2P**

**243973-60-6P 243973-61-7P 243973-63-9P**

**243973-65-1P 243973-66-2P 243973-68-4P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 3-hydroxy-4-aryl-5-pyrazolines as **herbicides**)

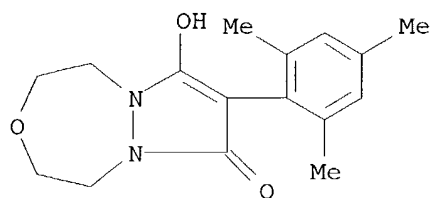
IT **243973-15-1P 243973-19-5P 243973-67-3P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of 3-hydroxy-4-aryl-5-pyrazolines as **herbicides**)

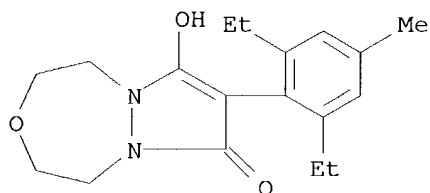
RN 243973-15-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 1,2,4,5-tetrahydro-9-hydroxy-8-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



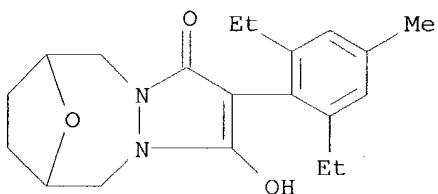
RN 243973-19-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 243973-67-3 HCAPLUS

CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-3-hydroxy- (9CI) (CA INDEX NAME)

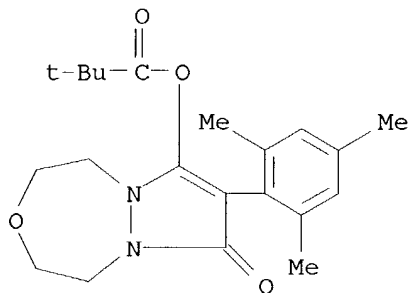


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 243973-65-1P 243973-66-2P 243973-68-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of 3-hydroxy-4-aryl-5-pyrazolines as **herbicides**)

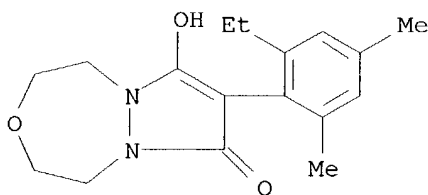
RN 243973-16-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1,2,4,5-tetrahydro-7-oxo-8-(2,4,6-trimethylphenyl)-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



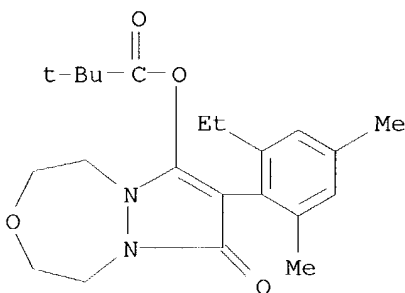
RN 243973-17-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



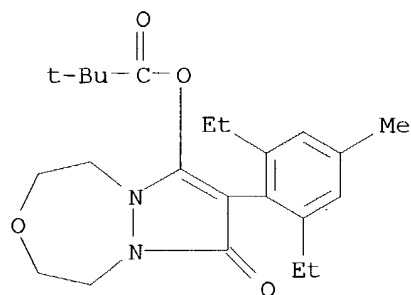
RN 243973-18-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



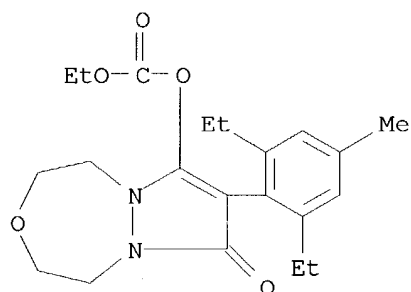
RN 243973-20-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



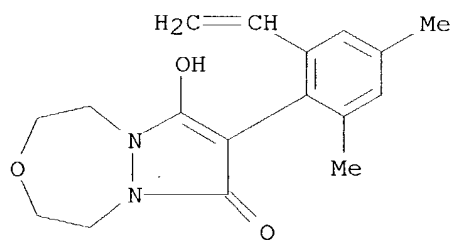
RN 243973-21-9 HCAPLUS

CN Carbonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ethyl ester (9CI) (CA INDEX NAME)



RN 243973-22-0 HCAPLUS

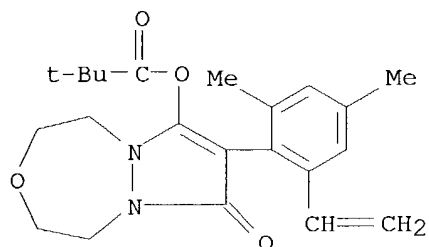
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 243973-23-1 HCAPLUS

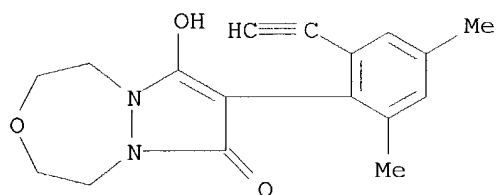
CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)





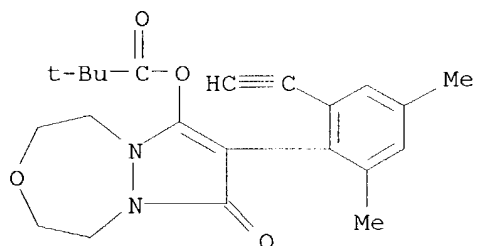
RN 243973-24-2 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



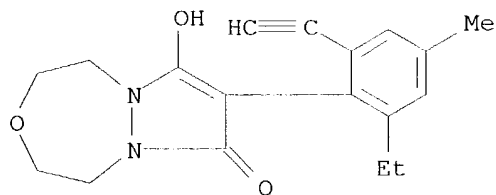
RN 243973-25-3 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



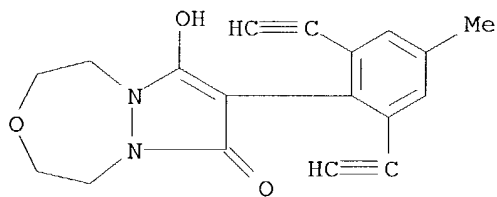
RN 243973-26-4 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



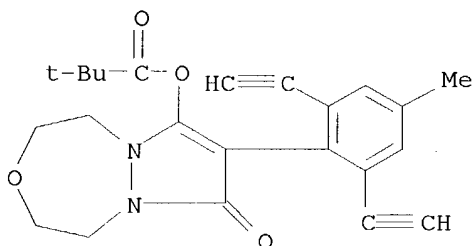
RN 243973-27-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



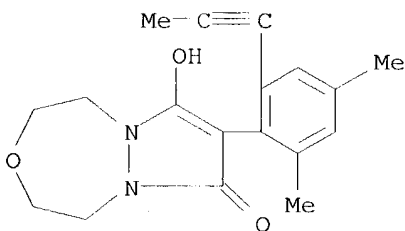
RN 243973-28-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



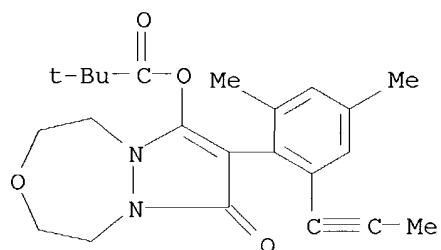
RN 243973-29-7 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



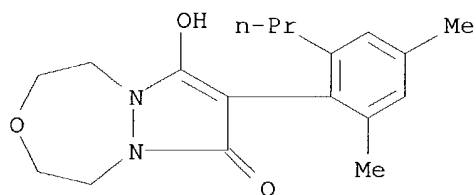
RN 243973-30-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



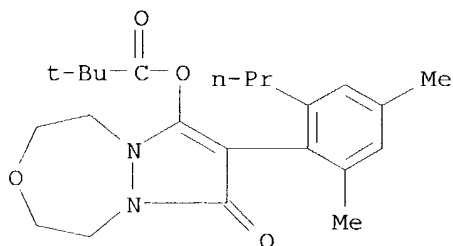
RN 243973-31-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



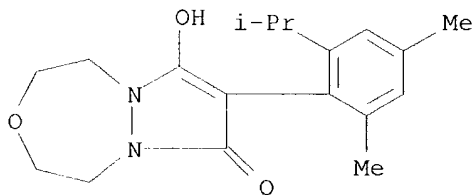
RN 243973-32-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



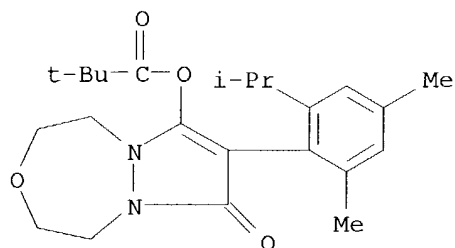
RN 243973-33-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,4-dimethyl-6-(1-methylethyl)phenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



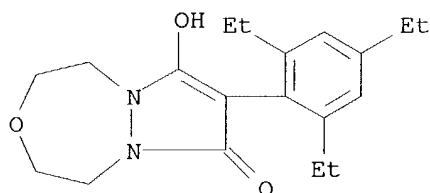
RN 243973-34-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



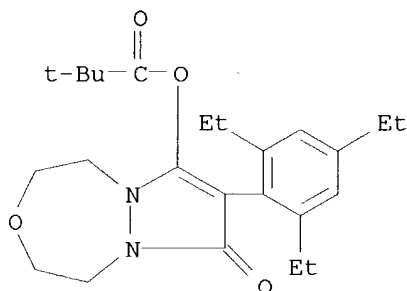
RN 243973-35-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 1,2,4,5-tetrahydro-9-hydroxy-8-(2,4,6-triethylphenyl)- (9CI) (CA INDEX NAME)



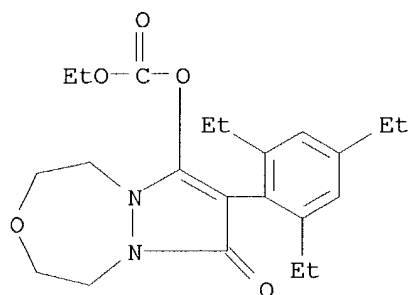
RN 243973-36-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1,2,4,5-tetrahydro-7-oxo-8-(2,4,6-triethylphenyl)-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



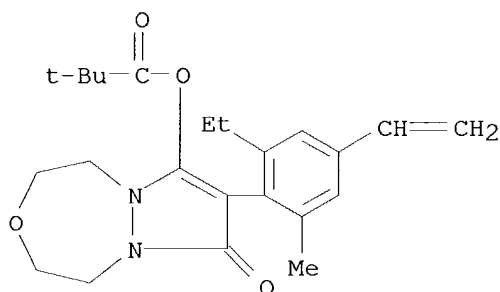
RN 243973-37-7 HCAPLUS

CN Carbonic acid, ethyl 1,2,4,5-tetrahydro-7-oxo-8-(2,4,6-triethylphenyl)-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



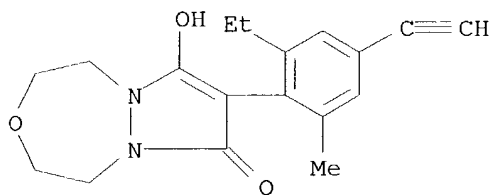
RN 243973-38-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(4-ethenyl-2-ethyl-6-methylphenyl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



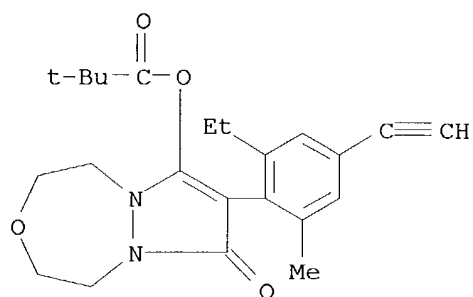
RN 243973-42-4 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-4-ethynyl-6-  
methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



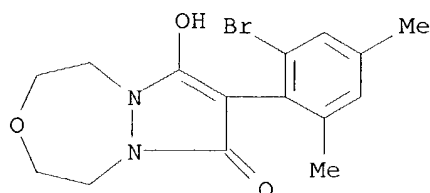
RN 243973-45-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-4-ethynyl-6-methylphenyl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



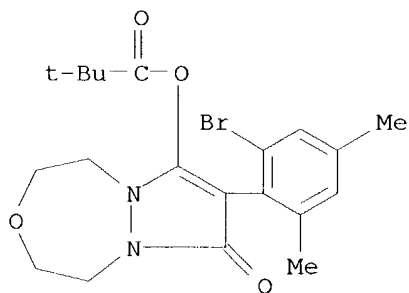
RN 243973-48-0 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-bromo-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



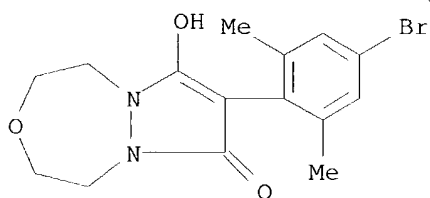
RN 243973-51-5 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-bromo-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



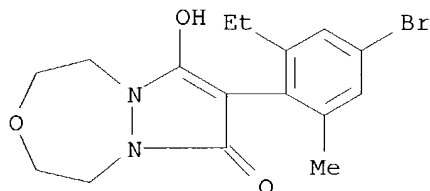
RN 243973-53-7 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(4-bromo-2,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



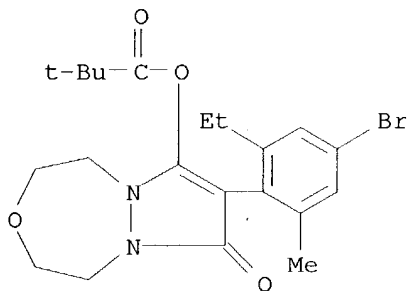
RN 243973-54-8 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(4-bromo-2-ethyl-6-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



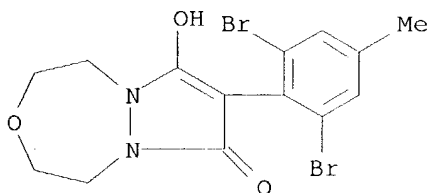
RN 243973-56-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(4-bromo-2-ethyl-6-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



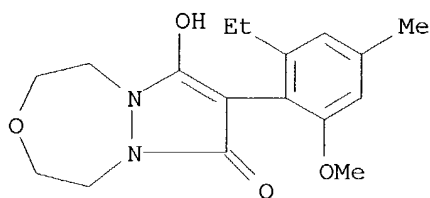
RN 243973-58-2 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-dibromo-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



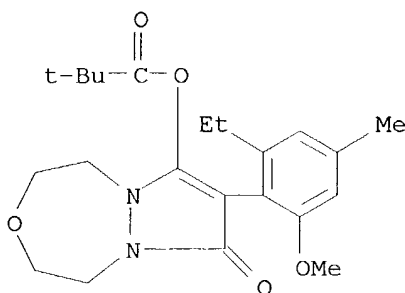
RN 243973-60-6 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



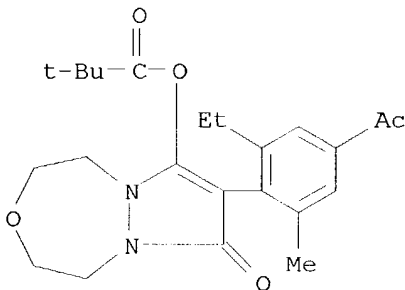
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CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-6-methoxy-4-methylphenyl)-  
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(9CI) (CA INDEX NAME)



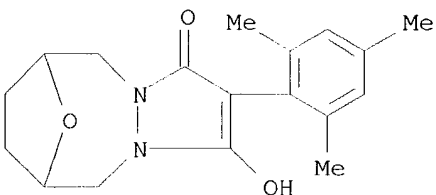
RN 243973-63-9 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(4-acetyl-2-ethyl-6-methylphenyl)-1,2,4,5-  
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(CA INDEX NAME)

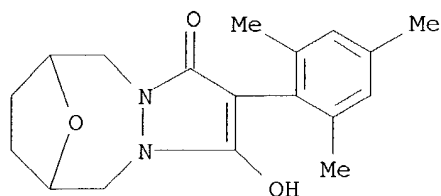


RN 243973-65-1 HCAPLUS

CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 5,6,7,8,9,10-hexahydro-3-  
hydroxy-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)

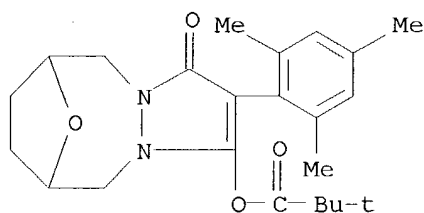






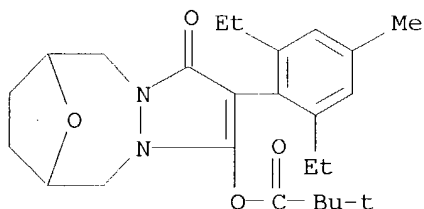
RN 243973-66-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5,6,7,8,9,10-hexahydro-1-oxo-2-(2,4,6-trimethylphenyl)-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI) (CA INDEX NAME)



RN 243973-68-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ACCESSION NUMBER: 1999:613908 HCAPLUS

DOCUMENT NUMBER: 131:228720

TITLE: Preparation of fused 3-hydroxy-4-aryl-5-oxopyrazolines as herbicides.

INVENTOR(S): Muhlebach, Michel; Glock, Jutta; Maetzke, Thomas; Stoller, Andre

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.

SOURCE: PCT Int. Appl., 110 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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| PATENT NO.  | KIND   | DATE     | APPLICATION NO. | DATE       |
|---|--|----------|-----------------|------------|
| WO 9947525  | A1   | 19990923 | WO 1999-EP1593  | 19990311   |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM<br>RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG |  |          |                 |            |
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| AU 741365   | B2   | 20011129 |                 |            |
| BR 9908757  | A  | 20001205 | BR 1999-8757    | 19990311   |
| EP 1062217  | A1   | 20001227 | EP 1999-915574  | 19990311   |
| EP 1062217  | B1   | 20030604 |                 |            |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, IE   |  |          |                 |            |
| JP 2002506870   | T2   | 20020305 | JP 2000-536720  | 19990311   |
| AT 242249   | E  | 20030615 | AT 1999-915574  | 19990311   |
| RU 2221787  | C2   | 20040120 | RU 2000-125819  | 19990311   |
| US 6410480  | B1   | 20020625 | US 2000-646142  | 20000913   |
| PRIORITY APPLN. INFO.:  |  |          | CH 1998-616     | A 19980313 |
|   |  |          | CH 1998-2431    | A 19981208 |
|   |  |          | WO 1999-EP1593  | W 19990311 |
| OTHER SOURCE(S): MARPAT 131:228720  |  |          |                 |            |
| AB  | Title compds. [I; R1-R3 = halo, NO2, cyano, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, cycloalkyl, halocycloalkyl, OH, SH, alkoxy, alkenyloxy, alkynyloxy, alkylsulfonyl, etc.; R4R5 = (alkylene-fused) CR6R7OCR8R9CR10R11CR12R13, etc.; R6-R13 = H, halo, alkyl, haloalkyl; G = H, CX1R30, SO2R34, alkali metal, alk. earth metal, sulfonium or ammonium cation, etc.; X1 = O, S; R30 = H, alkyl, haloalkyl, alkenyl, alkoxyalkyl, alkoxyalkyl, Ph, etc.], were prep'd. Thus, hexahydro-1,4,5-oxadiazepine dihydrobromide (prepn. given) was heated with di-Et 2-(2,4,6-trimethylphenyl)malonate and Et3N in xylene at 150.degree. with distn. of EtOH to give title compd. (II). The latter at 500 g/ha preemergent gave complete control of Lolium, Setaria, Panicum, Echinochloa, etc. |          |                 |            |
| IC  | ICM C07D498-04   |          |                 |            |
|   | ICS A01N043-90   |          |                 |            |
| CC  | 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))  |          |                 |            |
|   | Section cross-reference(s): 5  |          |                 |            |
| IT  | <b>Herbicides</b>  |          |                 |            |
|   | (prepn. of fused 3-hydroxy-4-aryl-5-oxopyrazolines as herbicides)  |          |                 |            |
| IT  | 243973-15-1P 243973-16-2P 243973-17-3P<br>243973-18-4P 243973-19-5P 243973-20-8P<br>243973-21-9P 243973-22-0P 243973-23-1P<br>243973-24-2P 243973-25-3P 243973-26-4P<br>243973-27-5P 243973-28-6P 243973-29-7P<br>243973-30-0P 243973-31-1P 243973-32-2P<br>243973-33-3P 243973-34-4P 243973-35-5P<br>243973-36-6P 243973-37-7P 243973-38-8P   |          |                 |            |

243973-42-4P 243973-45-7P 243973-48-0P  
 243973-51-5P 243973-53-7P 243973-54-8P  
 243973-56-0P 243973-58-2P 243973-60-6P  
 243973-61-7P 243973-63-9P 243973-65-1P  
 243973-66-2P 243973-67-3P 243973-68-4P

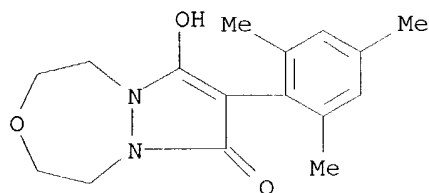
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of fused 3-hydroxy-4-aryl-5-oxopyrazolines as herbicides)

IT 243973-15-1P 243973-16-2P 243973-17-3P  
 243973-18-4P 243973-19-5P 243973-20-8P  
 243973-21-9P 243973-22-0P 243973-23-1P  
 243973-24-2P 243973-25-3P 243973-26-4P  
 243973-27-5P 243973-28-6P 243973-29-7P  
 243973-30-0P 243973-31-1P 243973-32-2P  
 243973-33-3P 243973-34-4P 243973-35-5P  
 243973-36-6P 243973-37-7P 243973-38-8P  
 243973-42-4P 243973-45-7P 243973-48-0P  
 243973-51-5P 243973-53-7P 243973-54-8P  
 243973-56-0P 243973-58-2P 243973-60-6P  
 243973-61-7P 243973-63-9P 243973-65-1P  
 243973-66-2P 243973-67-3P 243973-68-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of fused 3-hydroxy-4-aryl-5-oxopyrazolines as herbicides)

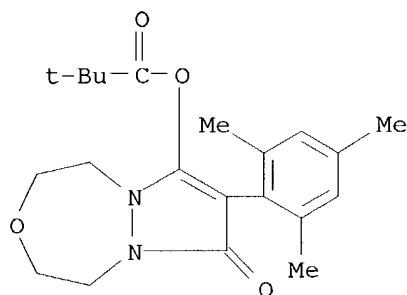
RN 243973-15-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 1,2,4,5-tetrahydro-9-hydroxy-8-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



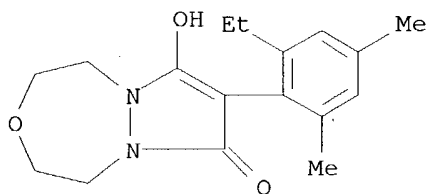
RN 243973-16-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1,2,4,5-tetrahydro-7-oxo-8-(2,4,6-trimethylphenyl)-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
 (CA INDEX NAME)



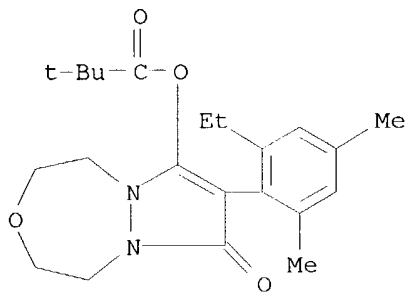
RN 243973-17-3 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



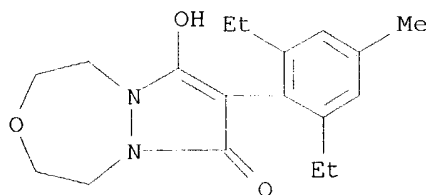
RN 243973-18-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



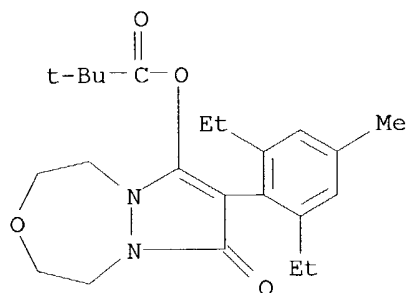
RN 243973-19-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



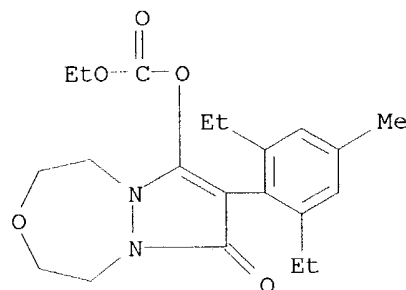
RN 243973-20-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



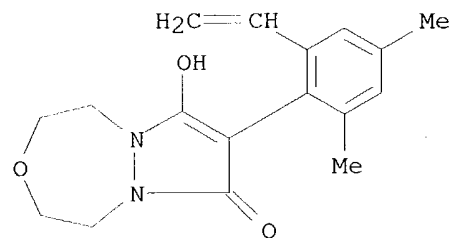
RN 243973-21-9 HCAPLUS

CN Carbonic acid, 8-(2,6-diethyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ethyl ester (9CI) (CA INDEX NAME)



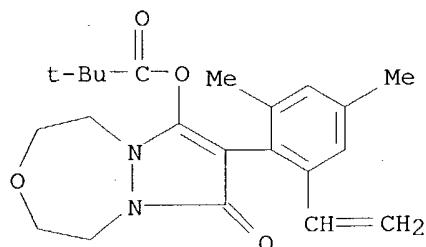
RN 243973-22-0 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



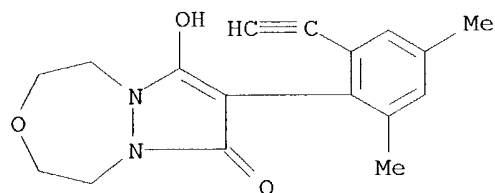
RN 243973-23-1 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethenyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



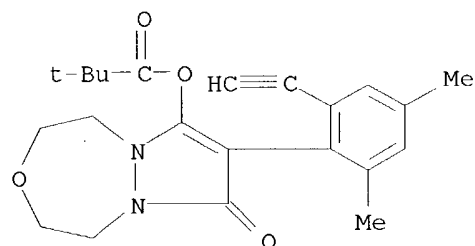
RN 243973-24-2 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



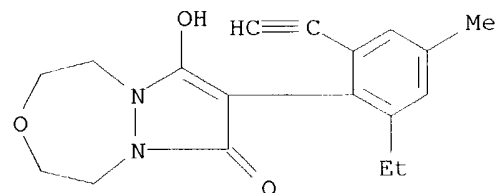
RN 243973-25-3 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethynyl-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



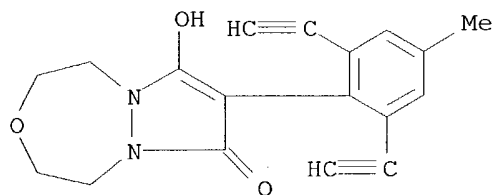
RN 243973-26-4 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-ethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



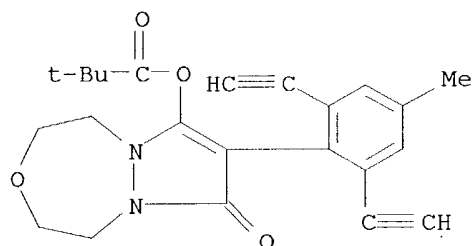
RN 243973-27-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



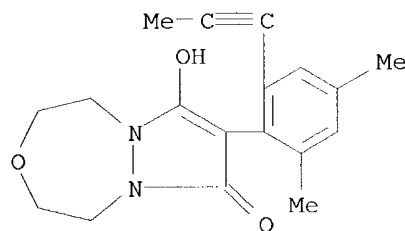
RN 243973-28-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,6-diethynyl-4-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



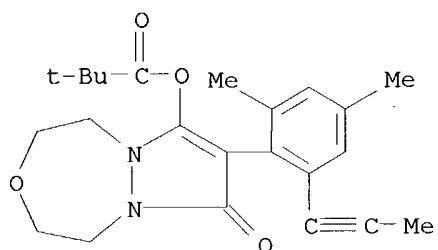
RN 243973-29-7 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



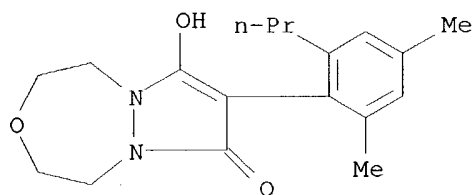
RN 243973-30-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-propynyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



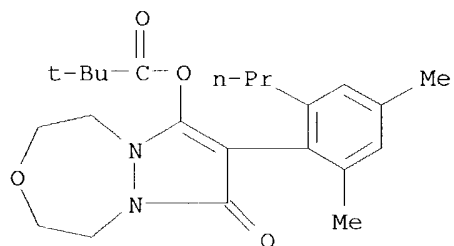
RN 243973-31-1 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



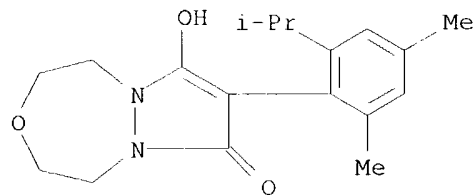
RN 243973-32-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2,4-dimethyl-6-propylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



RN 243973-33-3 HCAPLUS

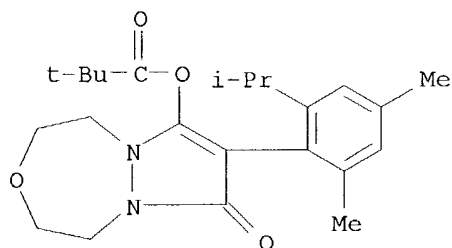
CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



RN 243973-34-4 HCAPLUS

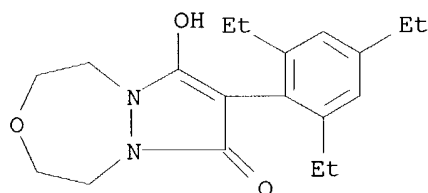


CN Propanoic acid, 2,2-dimethyl-, 8-[2,4-dimethyl-6-(1-methylethyl)phenyl]-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



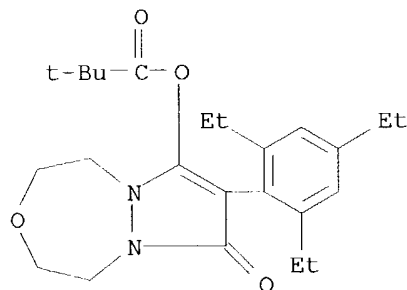
RN 243973-35-5 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 1,2,4,5-tetrahydro-9-hydroxy-8-(2,4,6-triethylphenyl)- (9CI) (CA INDEX NAME)



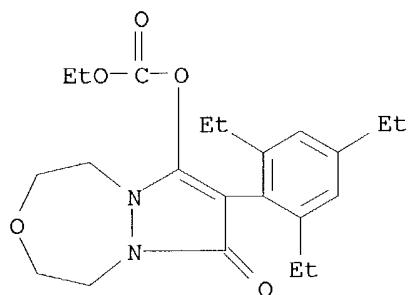
RN 243973-36-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1,2,4,5-tetrahydro-7-oxo-8-(2,4,6-triethylphenyl)-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



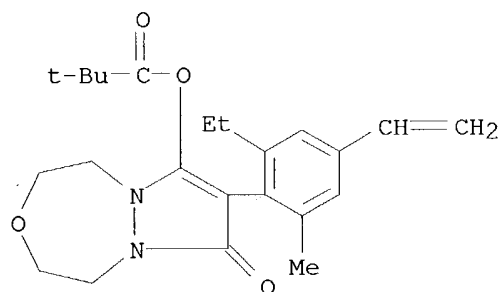
RN 243973-37-7 HCAPLUS

CN Carbonic acid, ethyl 1,2,4,5-tetrahydro-7-oxo-8-(2,4,6-triethylphenyl)-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



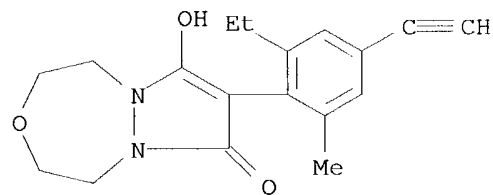
RN 243973-38-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(4-ethenyl-2-ethyl-6-methylphenyl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



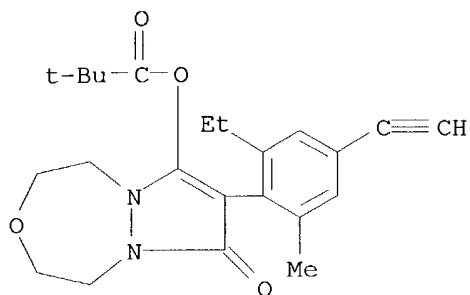
RN 243973-42-4 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-4-ethynyl-6-  
methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



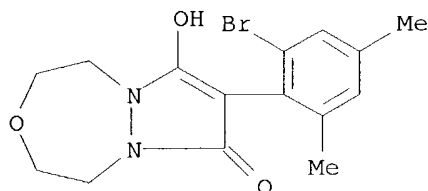
RN 243973-45-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-4-ethynyl-6-methylphenyl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



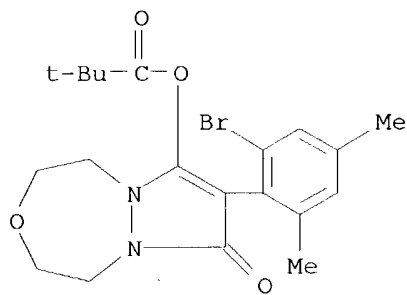
RN 243973-48-0 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-bromo-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



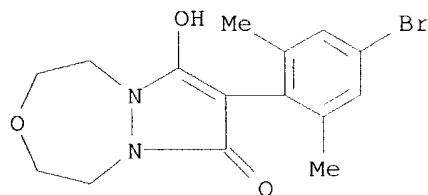
RN 243973-51-5 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-bromo-4,6-dimethylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



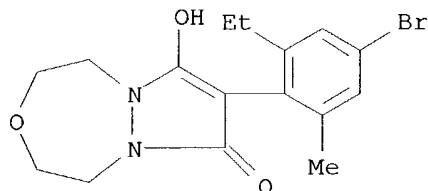
RN 243973-53-7 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(4-bromo-2,6-dimethylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



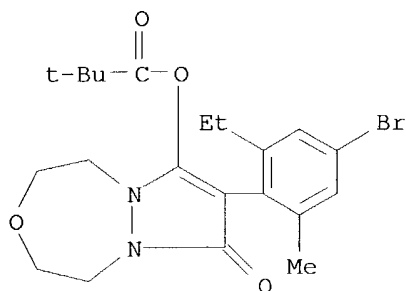
RN 243973-54-8 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(4-bromo-2-ethyl-6-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



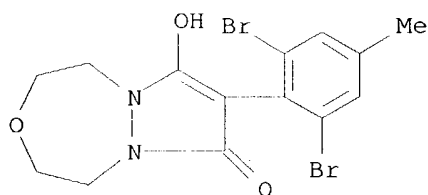
RN 243973-56-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(4-bromo-2-ethyl-6-methylphenyl)-1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI) (CA INDEX NAME)



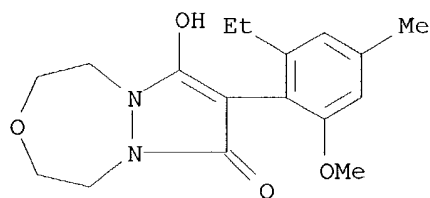
RN 243973-58-2 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2,6-dibromo-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



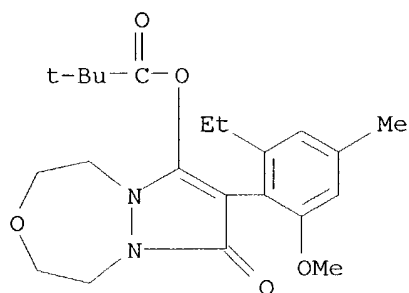
RN 243973-60-6 HCAPLUS

CN 7H-Pyrazolo[1,2-d][1,4,5]oxadiazepin-7-one, 8-(2-ethyl-6-methoxy-4-methylphenyl)-1,2,4,5-tetrahydro-9-hydroxy- (9CI) (CA INDEX NAME)



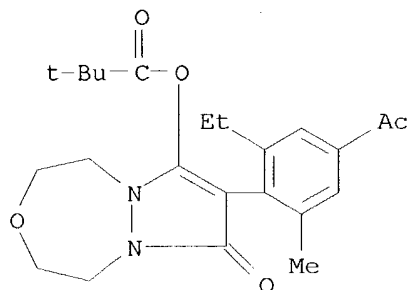
RN 243973-61-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 8-(2-ethyl-6-methoxy-4-methylphenyl)-  
1,2,4,5-tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester  
(9CI) (CA INDEX NAME)



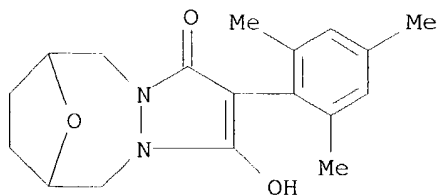
RN 243973-63-9 HCAPLUS

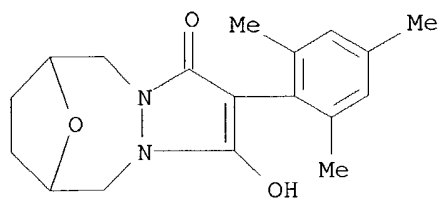
CN Propanoic acid, 2,2-dimethyl-, 8-(4-acetyl-2-ethyl-6-methylphenyl)-1,2,4,5-  
tetrahydro-7-oxo-7H-pyrazolo[1,2-d][1,4,5]oxadiazepin-9-yl ester (9CI)  
(CA INDEX NAME)



RN 243973-65-1 HCAPLUS

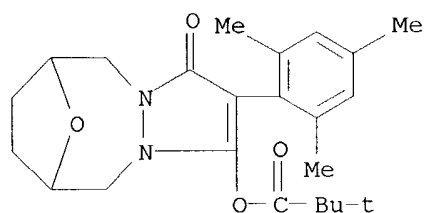
CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 5,6,7,8,9,10-hexahydro-3-  
hydroxy-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)





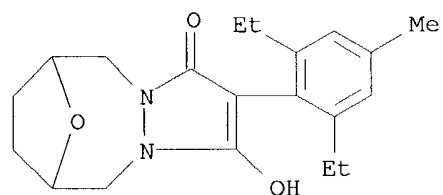
RN 243973-66-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5,6,7,8,9,10-hexahydro-1-oxo-2-(2,4,6-trimethylphenyl)-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI) (CA INDEX NAME)



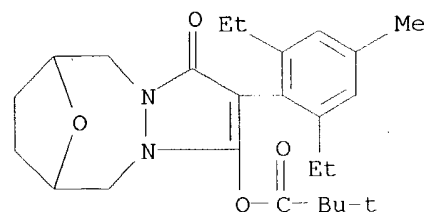
RN 243973-67-3 HCAPLUS

CN 6,9-Epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-3-hydroxy- (9CI) (CA INDEX NAME)



RN 243973-68-4 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-(2,6-diethyl-4-methylphenyl)-5,6,7,8,9,10-hexahydro-1-oxo-6,9-epoxy-1H-pyrazolo[1,2-a][1,2]diazocin-3-yl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:208540 HCAPLUS

DOCUMENT NUMBER: 128:257333

TITLE: Preparation of heterocyclic compounds as new antidotes  
in herbicidal compositions

INVENTOR(S): Tobler, Hans; Szczepanski, Henry; Fory, Werner

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Tobler, Hans; Szczepanski,  
Henry; Fory, Werner

SOURCE: PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

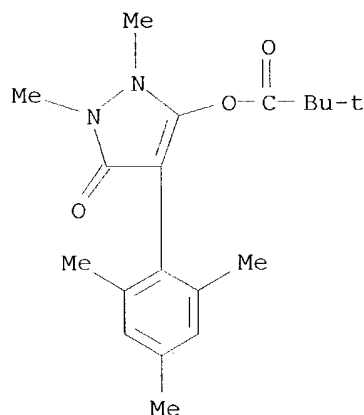
| PATENT NO.             | KIND   | DATE     | APPLICATION NO. | DATE       |
|------------------------|--|----------|-----------------|------------|
| WO 9813361             | A1   | 19980402 | WO 1997-EP5252  | 19970924   |
| W:                     | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |          |                 |            |
| RW:                    | GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG   |          |                 |            |
| AU 9747780             | A1   | 19980417 | AU 1997-47780   | 19970924   |
| EP 929543              | A1   | 19990721 | EP 1997-910351  | 19970924   |
| EP 929543              | B1   | 20011031 |                 |            |
| R:                     | DE, FR, GB   |          |                 |            |
| ZA 9708579             | A  | 19980326 | ZA 1997-8579    | 19970925   |
| US 6294504             | B1   | 20010925 | US 1999-269453  | 19990624   |
| PRIORITY APPLN. INFO.: |  |          | CH 1996-2359    | A 19960926 |
|                        |  |          | WO 1997-EP5252  | W 19970924 |

OTHER SOURCE(S): MARPAT 128:257333

AB The title compds. [I; R1 = H, C1-4 alkyl, NO2, etc.; R2 = H, halo, CF3, etc.; R3 = H, halo, C1-4 alkyl; U, V, W and Z = O, S, C(O), etc., with the proviso that at least one of U, V, W or Z = C(O), and one ring member which is adjacent to this or these ring members signifies the group C:CHOC(R4)(R5)C(O)A; and two adjacent ring members U and V, V and W, and W and Z can not simultaneously signify O; R4, R5 = H, C1-8 alkyl; R4R5 = C2-6 alkylene; A = YR7, NR18R19; Y = O, S; R7 = H, C1-8 alkyl, C1-8-haloalkyl, etc.; R18 = H, C1-8 alkyl, Ph, etc.; R19 = H, C1-8 alkyl, C3-6 alkenyl, C3-6 alkynyl; R18R19 = C4-5 alkylene; m = 0-2], useful as antidotes in herbicidal compns. for the control of weeds and grasses in useful plant cultivations, as well as compns. having selective herbicide activity, which contain the compd. I, and as herbicides the compds. of formulas II-VII (wherein W0, R21, Z0, B, n, R22-R24, E, R31-R35, A1, B1, A2, B2, R36, G, R48 and R49 have the significances given in the description), were prepd. Treatment of 3H-2-benzopyran-3-one-1,4-dihydro-4-hydroxymethylene with NaH in DMF followed by addn. of bromoacetic acid Me ester afforded compd. I [R1-R3 = H; U = CH2; V = O; m = 1; W = C(O); Z = C:CHOCH2CO2Me] which showed post-emergent phytotoxic activity of 6 in a nine-stage appraisal scale (1 = complete damage, 9 = no effect) when used as antidote at 250 g/ha in mixt. with clodinafop (5 g/ha) on maize.

IC ICM C07D311-76

- ICS C07D335-06; C07D217-24; C07D307-83; C07D209-34; C07D333-64;  
C07D311-12; C07D215-22; C07D409-12; C07D407-12; C07C069-708;  
C07C069-738; C07C049-683; A01N043-16; A01N043-18; A01N043-42;  
A01N043-12; A01N037-02; A01N035-06
- CC 27-14 (Heterocyclic Compounds (One Hetero Atom))  
Section cross-reference(s): 5
- IT Antidotes
- Herbicides**  
(prepn. of heterocyclic compds. as new antidotes in herbicidal compns.)
- IT 15972-60-8, Alachlor 34256-82-1, Acetochlor 51218-45-2, Metolachlor  
69335-91-7, Fluazifop 74223-56-6, Sulfometuron 76578-12-6, Quizalofop  
79277-67-1, Thifensulfuron 79510-48-8, Metsulfuron 82097-50-5,  
Triasulfuron 87392-12-9 87674-68-8, Dimethenamid 94593-91-6,  
Cinosulfuron 95617-09-7, Fenoxaprop 98389-04-9, Pyrazosulfuron  
98967-40-9, Flumetsulam 99283-00-8, Chlorimuron 99283-01-9,  
Bensulfuron 106040-48-6, Tribenuron 111353-84-5, Ethametsulfuron  
111479-05-1, Propaquizafop 111991-09-4, Nicosulfuron 113036-87-6,  
Primisulfuron 114420-56-3, Clodinafop 120162-55-2, Azimsulfuron  
120923-37-7, Amidosulfuron 122008-78-0, Cyhalofop 122931-48-0,  
Rimsulfuron 126801-58-9, Ethoxysulfuron 132308-20-4 135990-29-3,  
Triflusulfuron 136849-15-5 139528-85-1, Metosulam 141112-29-0  
141776-32-1, Sulfosulfuron 144651-06-9, Oxasulfuron 150315-10-9,  
Flupyrsulfuron 159518-97-5, Cloransulam 163805-38-7  
**178177-66-7** 205121-33-1  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except  
adverse); BSU (Biological study, unclassified); BIOL (Biological study);  
USES (Uses)  
(prepn. of heterocyclic compds. as new antidotes in **herbicidal**  
compns.)
- IT **178177-66-7**  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except  
adverse); BSU (Biological study, unclassified); BIOL (Biological study);  
USES (Uses)  
(prepn. of heterocyclic compds. as new antidotes in **herbicidal**  
compns.)
- RN 178177-66-7 HCAPLUS
- CN Propanoic acid, 2,2-dimethyl-, 2,5-dihydro-1,2-dimethyl-5-oxo-4-(2,4,6-  
trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)





REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1996:546334 HCAPLUS  
 DOCUMENT NUMBER: 125:195643  
 TITLE: 4-Aryl- and 4-heteroaryl-5-oxopyrazoline derivatives having pesticidal properties  
 INVENTOR(S): Boeger, Manfred; Maienfisch, Peter; Cederbaum, Fredrik; Pittner, Thomas; Nadkarni, Pradeep Jeevaji; Ekkundi, Vadiraj Subbanna; Kulkarni, Surendra Umesh  
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.  
 SOURCE: PCT Int. Appl., 101 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE     | APPLICATION NO. | DATE     |
|------------------------|--|----------|-----------------|----------|
| WO 9621652             | A1   | 19960718 | WO 1995-EP5152  | 19951229 |
| W:                     | AL, AM, AU, AZ, BB, BG, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN |          |                 |          |
| RW:                    | KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG                                 |          |                 |          |
| CA 2210286             | AA   | 19960718 | CA 1995-2210286 | 19951229 |
| AU 9644353             | A1   | 19960731 | AU 1996-44353   | 19951229 |
| EP 804422              | A1   | 19971105 | EP 1995-943223  | 19951229 |
| R:                     | AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, PT, IE   |          |                 |          |
| CN 1175248             | A  | 19980304 | CN 1995-197652  | 19951229 |
| JP 10512248            | T2   | 19981124 | JP 1995-521407  | 19951229 |
| ZA 9600243             | A  | 19960819 | ZA 1996-243     | 19960112 |
| BR 9600088             | A  | 19980127 | BR 1996-88      | 19960112 |
| PRIORITY APPLN. INFO.: |  |          | CH 1995-108     | 19950113 |
|                        |  |          | WO 1995-EP5152  | 19951229 |

OTHER SOURCE(S): MARPAT 125:195643

AB The invention relates to novel, pesticidally effective title compds. I [R1 = (un)substituted Ph, pyridinyl, or naphthyl; R2R3 = atoms to form (un)satd., (un)substituted, (poly)cyclic system with optional addnl. non-terminal heteroatoms; G = -COA or -SO2B; A = (un)substituted alkyl, cycloalkyl, cycloalkoxy, adamantyl, naphthyl, etc.; B = (halo)alk(en/yn)yl, (halo)alkoxy, (halo)cycloalkyl, (un)substituted benzyl or naphthyl, substituted or cyclic amino]. Also disclosed are their compns., use as insecticides, acaricides, or herbicides, esp. in crops of useful plants, and selective herbicidal compns. comprising compds. I with certain quinoline, pyrazole, or triazole-based safeners. For example, reaction of 3-hydroxy-4-mesityl-5-oxo-1,2-tetramethylenepyrazoline with (2-cyanoethyl)methylcarbonyl chloride in THF in the presence of Et3N gave title compd. II [A = NMeCH2CH2CN]. The latter at 400 ppm gave >80% control of mixed stages of Tetranychus urticae. The similarly prepd. compd. II [A = CMe2OCOBu-tert] at 2 kg/ha preemergence gave complete control of Avena and Setaria. Useful safeners, e.g. for maize or cereals, include compd. III.

IC ICM C07D231-32

ICS C07D487-04; A01N043-56; A01N043-90  
 ICI C07D487-04, C07D237-00, C07D231-00; C07D487-04, C07D231-00  
 CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 1

IT Acaricides

**Herbicides**

Insecticides

Pesticides

(prepn. of pyrazoline derivs. as pesticides)

IT 180799-77-3P 180799-78-4P 180799-79-5P  
 180799-80-8P 180799-81-9P 180799-82-0P  
 180799-83-1P 180799-84-2P 180799-85-3P  
 180799-86-4P 180799-87-5P 180799-88-6P  
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 180799-92-2P 180799-93-3P 180799-94-4P  
 180799-95-5P 180799-96-6P 180799-97-7P  
 180799-98-8P 180799-99-9P 180800-00-4P  
 180800-01-5P 180800-02-6P 180800-03-7P  
 180800-04-8P 180800-05-9P 180800-06-0P  
 180800-07-1P 180800-08-2P 180800-09-3P  
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 180800-97-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of pyrazoline derivs. as pesticides)

IT 16386-97-3, 2-Cyclohexyl-2-methylpropionic acid 25714-90-3,  
 (2-Cyanoethyl)methylcarbamoyl chloride 35028-38-7,  
 Cyclohexylmethylcarbamoyl chloride 144757-98-2,

3-Hydroxy-4-mesityl-5-oxo-1,2-tetramethylenepyrazoline

RL: RCT (Reactant); RACT (Reactant or reagent)

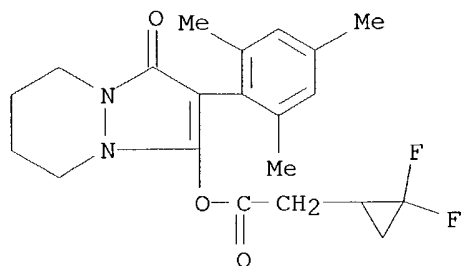
(starting material; prepn. of pyrazoline derivs. as pesticides)

IT 180799-77-3P 180799-78-4P 180799-79-5P  
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180800-97-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of pyrazoline derivs. as pesticides)

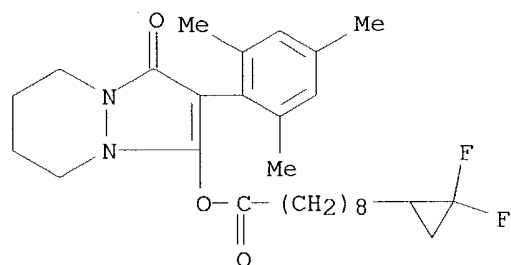
RN 180799-77-3 HCAPLUS

CN Cyclopropaneacetic acid, 2,2-difluoro-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



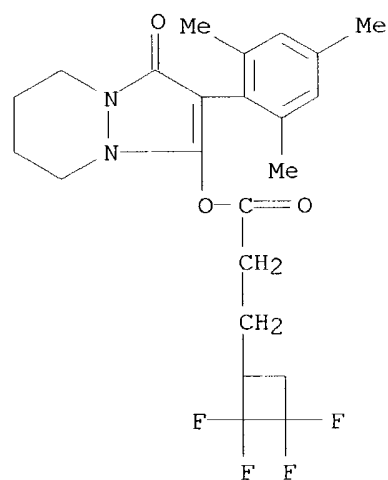
RN 180799-78-4 HCAPLUS

CN Cyclopropanenonanoic acid, 2,2-difluoro-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180799-79-5 HCAPLUS

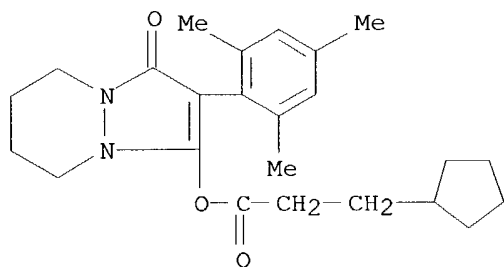
CN Cyclobutanepropanoic acid, 2,2,3,3-tetrafluoro-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180799-80-8 HCAPLUS

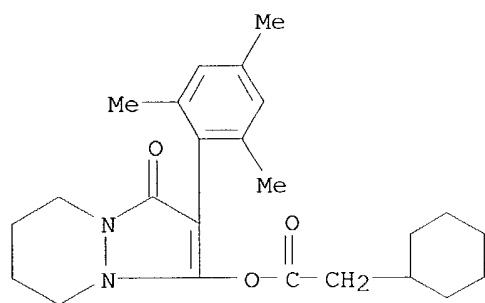
CN Cyclopentanepropanoic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-

trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



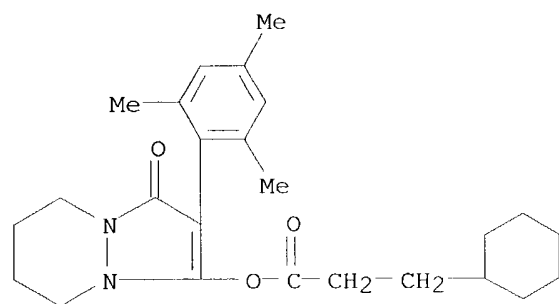
RN 180799-81-9 HCAPLUS

CN Cyclohexanecarboxylic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



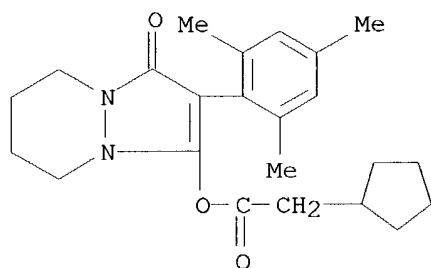
RN 180799-82-0 HCAPLUS

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|----|--|-----------------|
| CN | Cyclohexanepropanoic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) | (CA INDEX NAME) |
|----|--|-----------------|



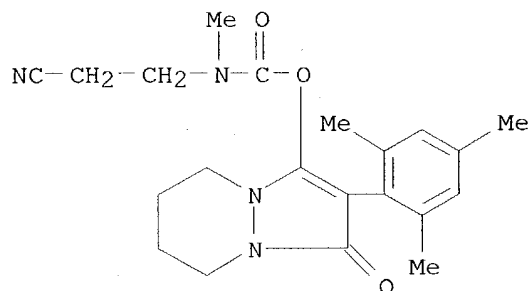
RN 180799-83-1 HCAPLUS

CN Cyclopentaneacetic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



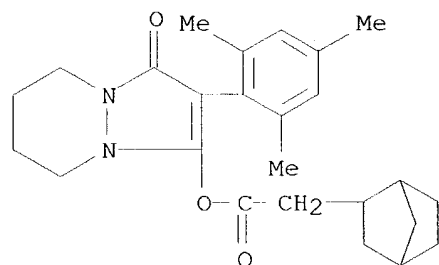
RN 180799-84-2 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)methyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



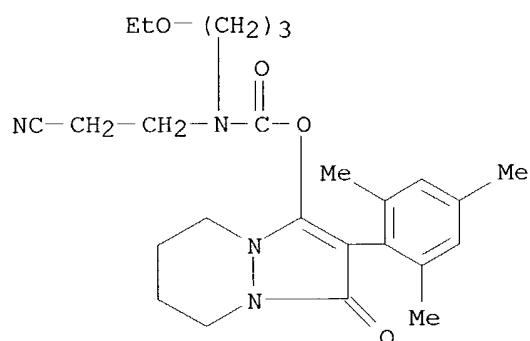
RN 180799-85-3 HCAPLUS

CN Bicyclo[2.2.1]heptane-2-acetic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



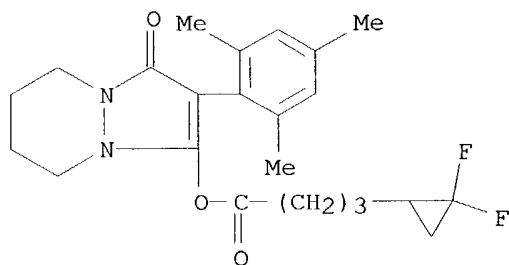
RN 180799-86-4 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)(3-ethoxypropyl)-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



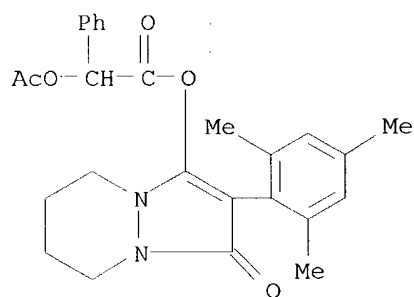
RN 180799-87-5 HCAPLUS

CN Cyclopropanebutanoic acid, 2,2-difluoro-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



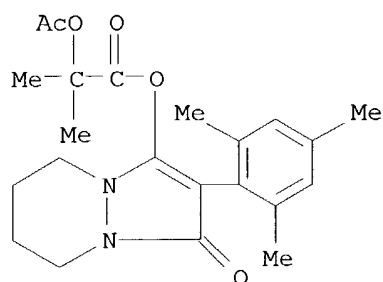
RN 180799-88-6 HCAPLUS

CN Benzeneacetic acid, .alpha.-(acetyloxy)-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



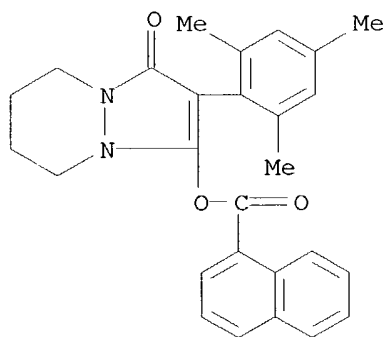
RN 180799-89-7 HCAPLUS

CN Propanoic acid, 2-(acetyloxy)-2-methyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



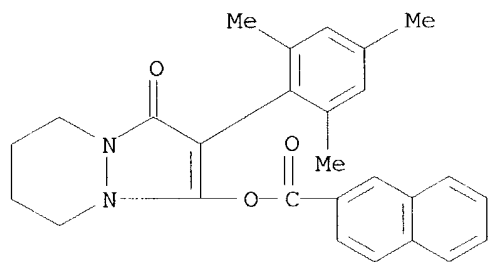
RN 180799-90-0 HCAPLUS

CN 1-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180799-91-1 HCAPLUS

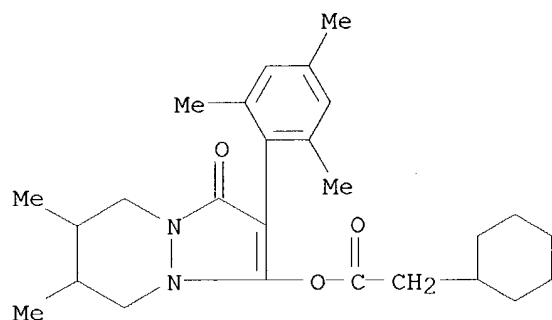
CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180799-92-2 HCAPLUS

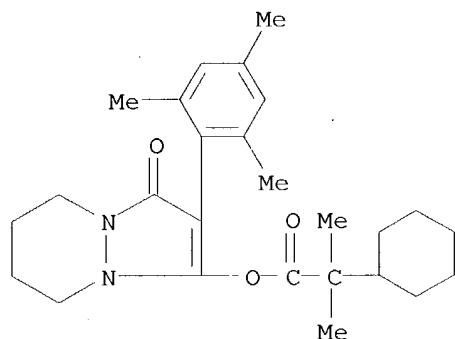
CN Cyclohexaneacetic acid, 5,6,7,8-tetrahydro-6,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





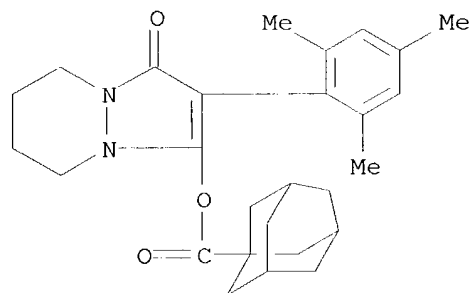
RN 180799-93-3 HCAPLUS

CN Cyclohexaneacetic acid, .alpha.,.alpha.-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)



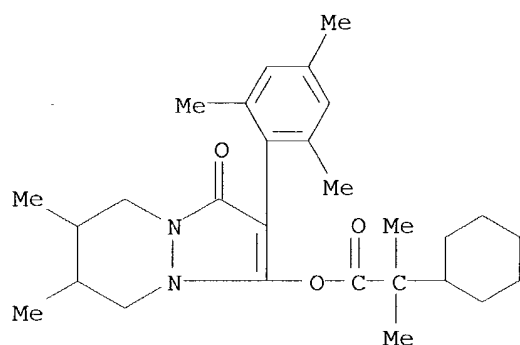
RN 180799-94-4 HCAPLUS

CN Tricyclo[3.3.1.1<sup>3,7</sup>]decane-1-carboxylic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



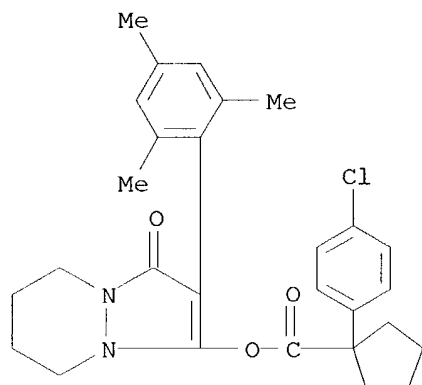
RN 180799-95-5 HCAPLUS

CN Cyclohexaneacetic acid, .alpha.,.alpha.-dimethyl-, 5,6,7,8-tetrahydro-6,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



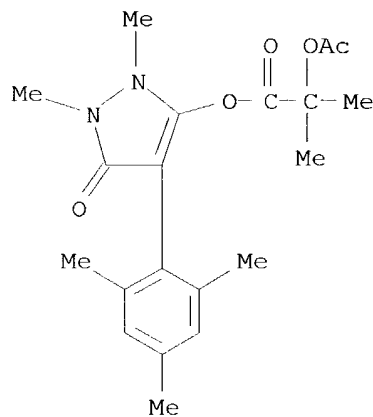
RN 180799-96-6 HCAPLUS

CN Cyclopentanecarboxylic acid, 1-(4-chlorophenyl)-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)



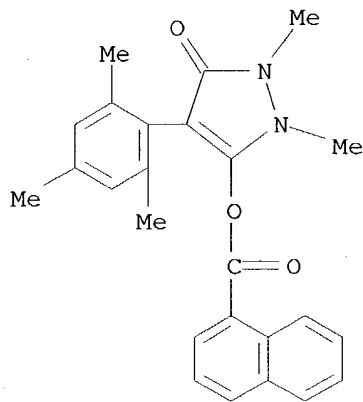
RN 180799-97-7 HCAPLUS

CN Propanoic acid, 2-(acetyloxy)-2-methyl-, 2,5-dihydro-1,2-dimethyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



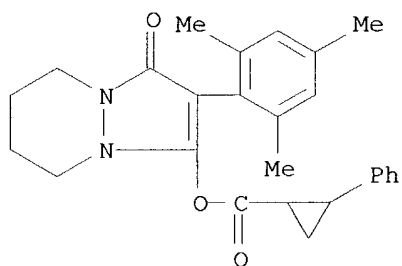
RN 180799-98-8 HCAPLUS

CN 1-Naphthalenecarboxylic acid, 2,5-dihydro-1,2-dimethyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



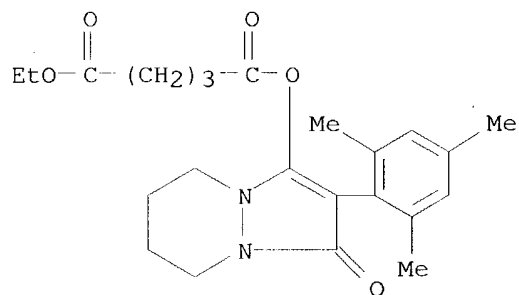
RN 180799-99-9 HCAPLUS

CN Cyclopropanecarboxylic acid, 2-phenyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



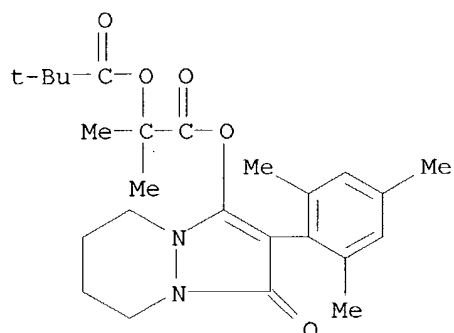
RN 180800-00-4 HCAPLUS

CN Pentanedioic acid, ethyl 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



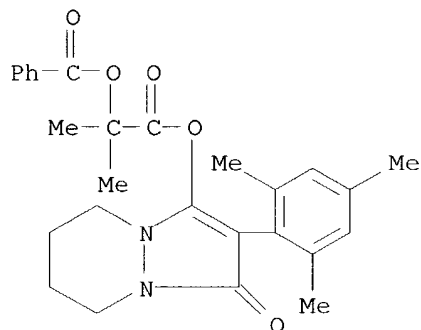
RN 180800-01-5 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1,1-dimethyl-2-oxo-2-[[5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl]oxy]ethyl ester (9CI) (CA INDEX NAME)



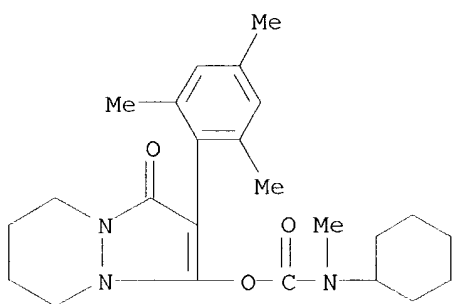
RN 180800-02-6 HCAPLUS

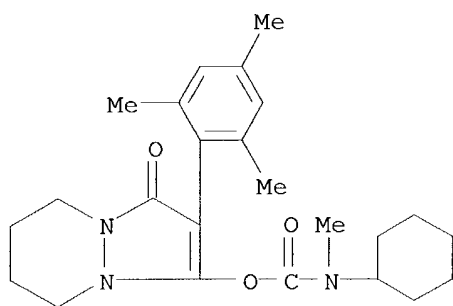
CN Propanoic acid, 2-(benzoyloxy)-2-methyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-03-7 HCAPLUS

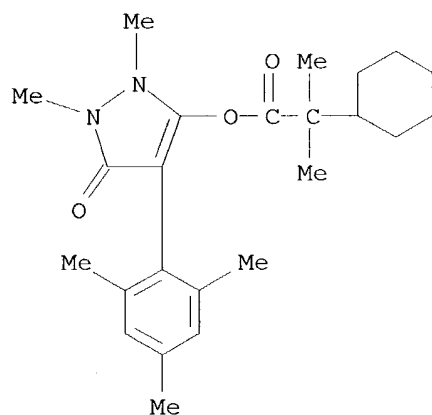
CN Carbamic acid, cyclohexylmethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





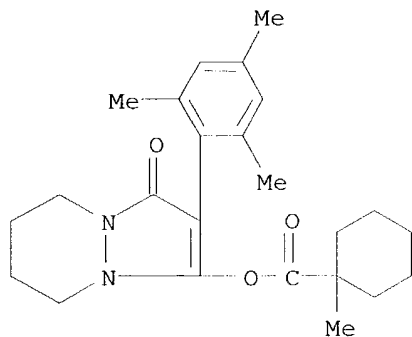
RN 180800-04-8 HCAPLUS

CN Cyclohexanecarboxylic acid, 1-methyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



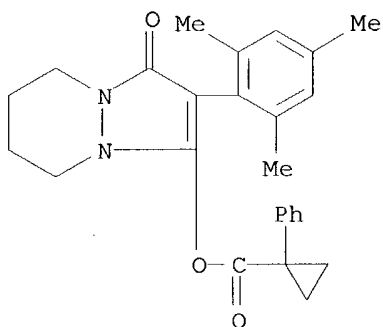
RN 180800-05-9 HCAPLUS

CN Cyclohexanecarboxylic acid, 1-methyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



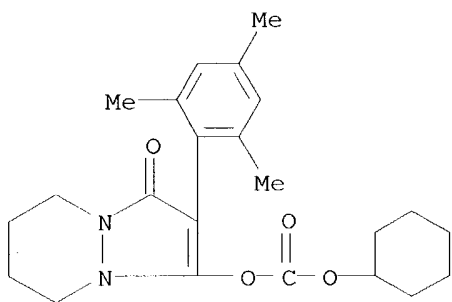
RN 180800-06-0 HCAPLUS

CN Cyclopropanecarboxylic acid, 1-phenyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



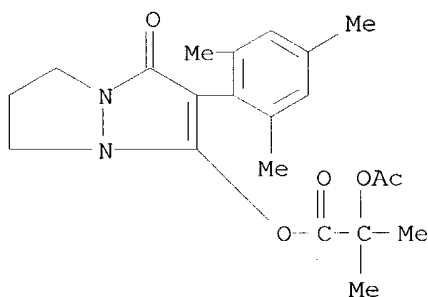
RN 180800-07-1 HCAPLUS

CN Carbonic acid, cyclohexyl 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



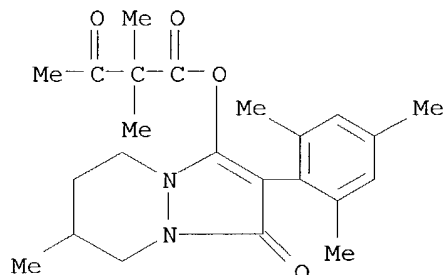
RN 180800-08-2 HCAPLUS

CN Propanoic acid, 2-(acetyloxy)-2-methyl-, 6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



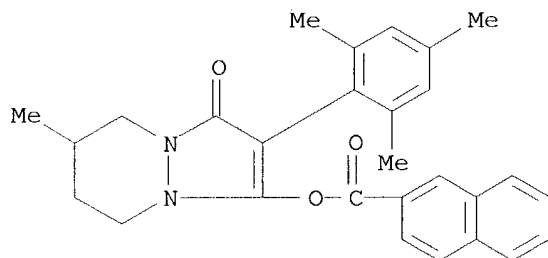
RN 180800-09-3 HCAPLUS

CN Butanoic acid, 2,2-dimethyl-3-oxo-, 5,6,7,8-tetrahydro-7-methyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



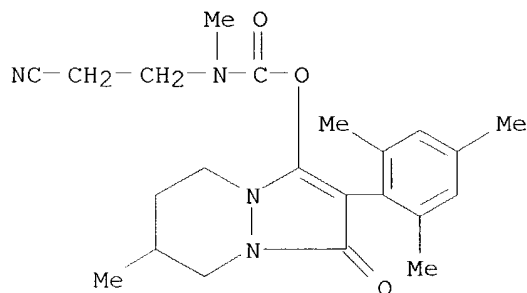
RN 180800-10-6 HCAPLUS

CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-7-methyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



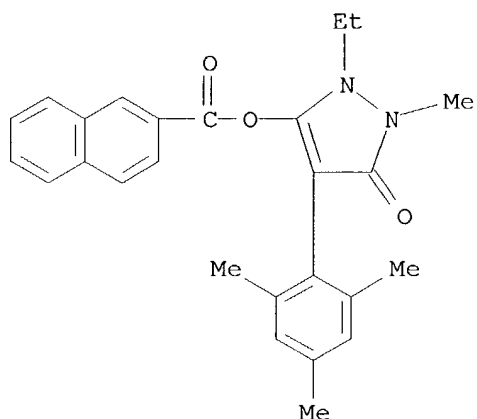
RN 180800-11-7 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)methyl-, 5,6,7,8-tetrahydro-7-methyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



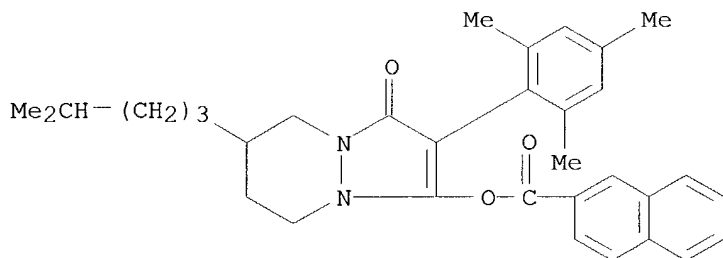
RN 180800-12-8 HCAPLUS

CN 2-Naphthalenecarboxylic acid, 2-ethyl-2,5-dihydro-1-methyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



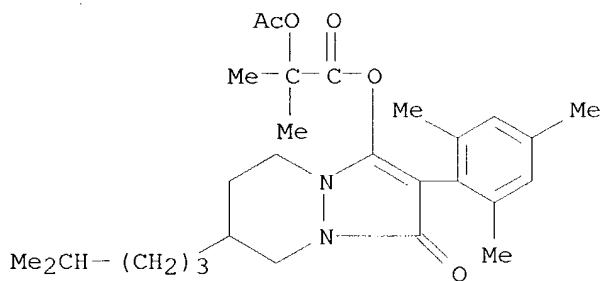
RN 180800-13-9 HCAPLUS

CN 2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-7-(4-methylpentyl)-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)



RN 180800-14-0 HCAPLUS

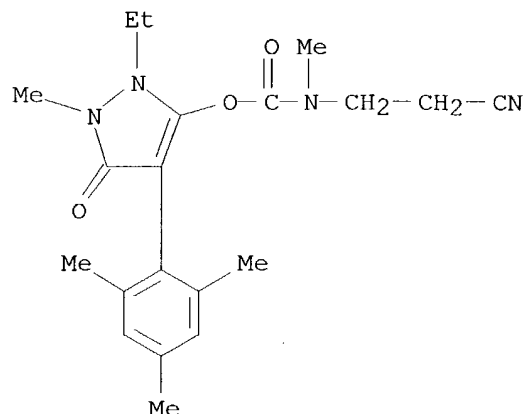
CN Propanoic acid, 2-(acetyloxy)-2-methyl-, 5,6,7,8-tetrahydro-7-(4-methylpentyl)-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-15-1 HCAPLUS

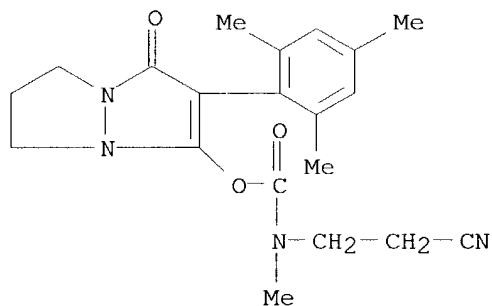
CN Carbamic acid, (2-cyanoethyl)methyl-, 2-ethyl-2,5-dihydro-1-methyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)





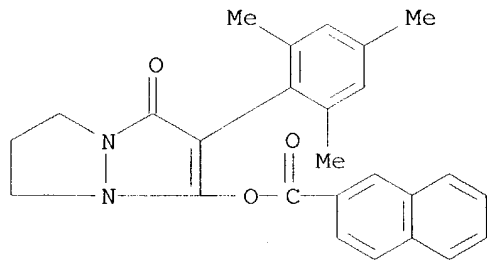
RN 180800-16-2 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)methyl-, 6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



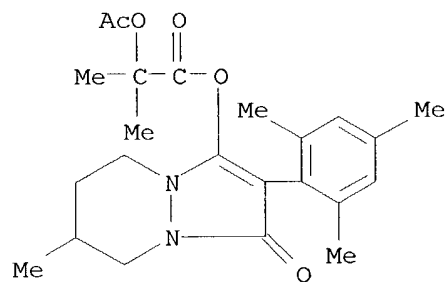
RN 180800-17-3 HCAPLUS

CN 2-Naphthalenecarboxylic acid, 6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



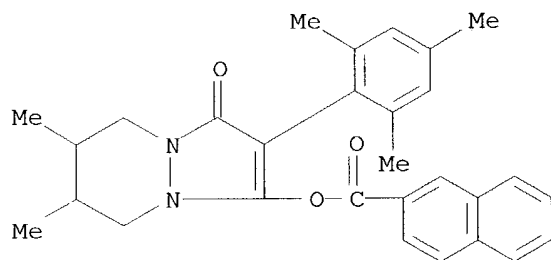
RN 180800-18-4 HCAPLUS

CN Propanoic acid, 2-(acetyloxy)-2-methyl-, 5,6,7,8-tetrahydro-7-methyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



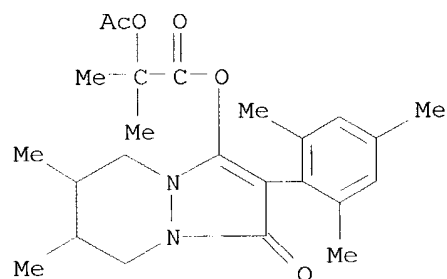
RN 180800-19-5 HCAPLUS

2-Naphthalenecarboxylic acid, 5,6,7,8-tetrahydro-6,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



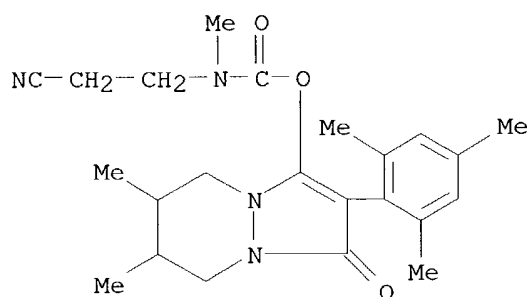
RN 180800-20-8 HCAPLUS

Propanoic acid, 2-(acetyloxy)-2-methyl-, 5,6,7,8-tetrahydro-6,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)



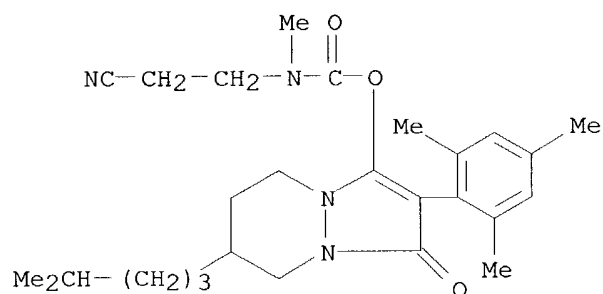
RN 180800-21-9 HCAPLUS

Carbamic acid, (2-cyanoethyl)methyl-, 5,6,7,8-tetrahydro-6,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)



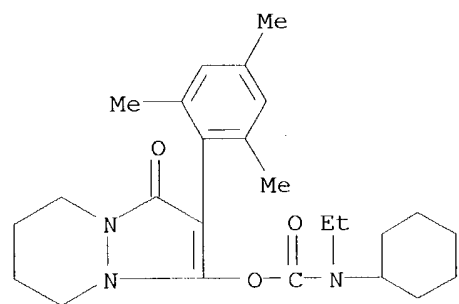
RN 180800-22-0 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)methyl-, 5,6,7,8-tetrahydro-7-(4-methylpentyl)-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



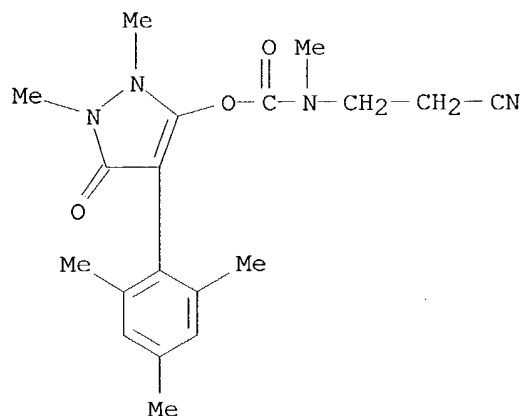
RN 180800-23-1 HCAPLUS

CN Carbamic acid, cyclohexylethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



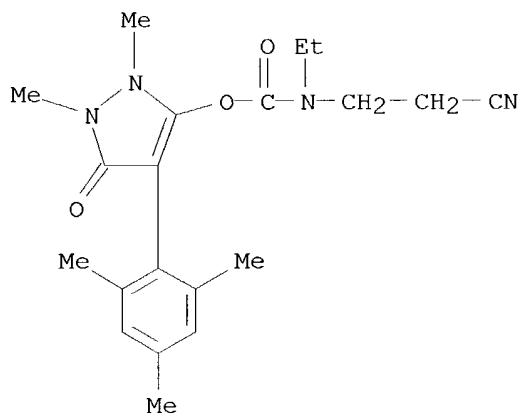
RN 180800-24-2 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)methyl-, 2,5-dihydro-1,2-dimethyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



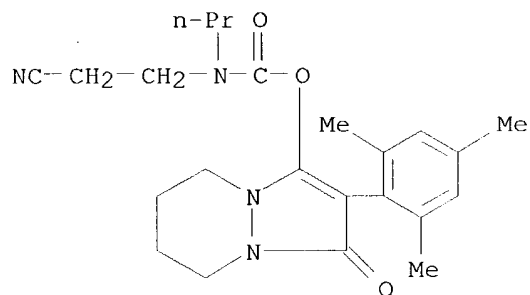
RN 180800-25-3 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)ethyl-, 2,5-dihydro-1,2-dimethyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



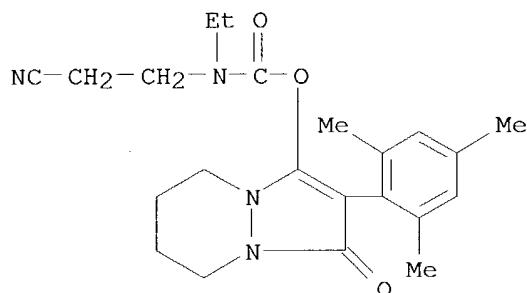
RN 180800-26-4 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)propyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



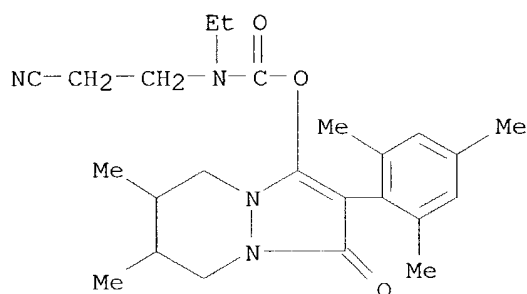
RN 180800-27-5 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)ethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



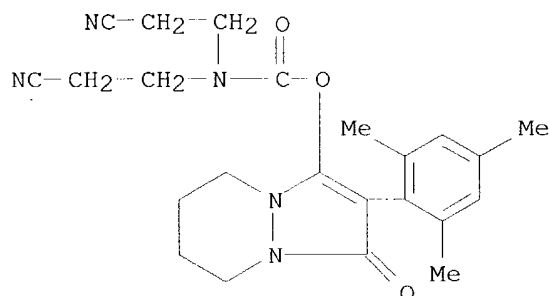
RN 180800-28-6 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)ethyl-, 5,6,7,8-tetrahydro-6,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-29-7 HCAPLUS

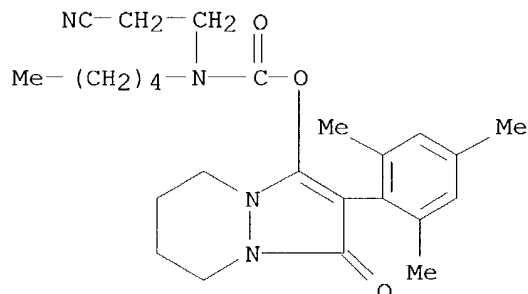
CN Carbamic acid, bis(2-cyanoethyl)-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-30-0 HCAPLUS

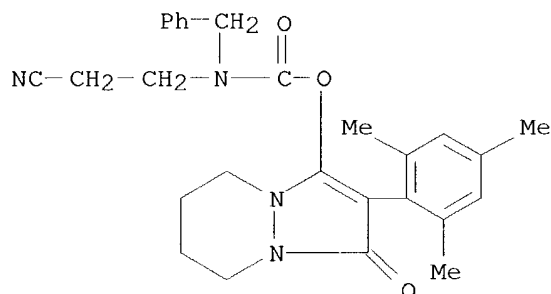
CN Carbamic acid, (2-cyanoethyl)pentyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-

trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



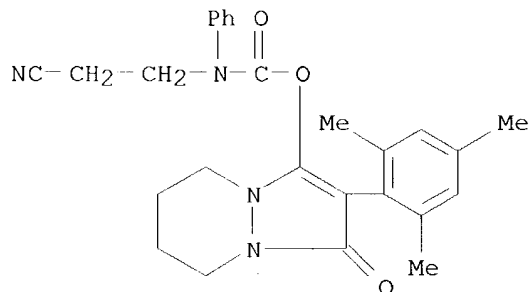
RN 180800-31-1 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)(phenylmethyl)-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-32-2 HCAPLUS

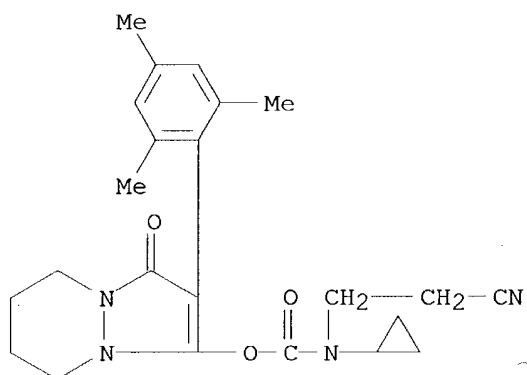
CN Carbamic acid, (2-cyanoethyl)phenyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-33-3 HCAPLUS

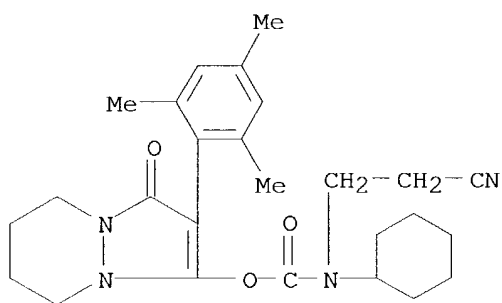
CN Carbamic acid, (2-cyanoethyl)cyclopropyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

INDEX NAME)



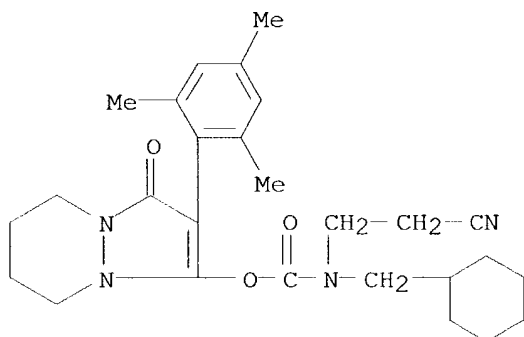
RN 180800-34-4 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)cyclohexyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



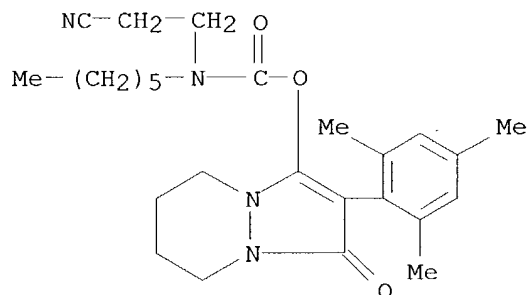
RN 180800-35-5 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)(cyclohexylmethyl)-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



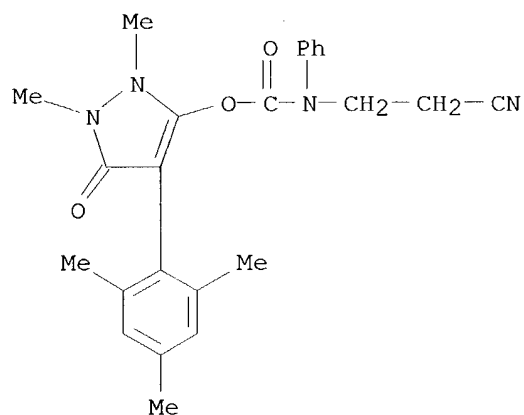
RN 180800-36-6 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)hexyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-37-7 HCAPLUS

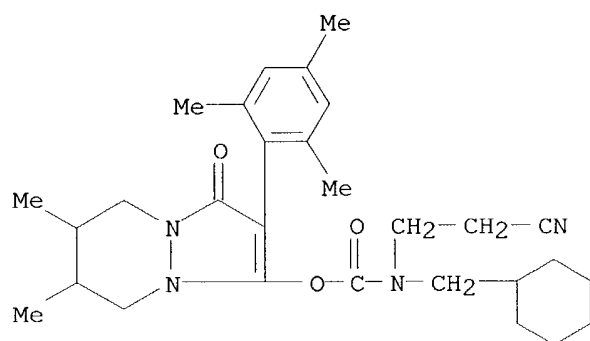
CN Carbamic acid, (2-cyanoethyl)phenyl-, 2,5-dihydro-1,2-dimethyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-38-8 HCAPLUS

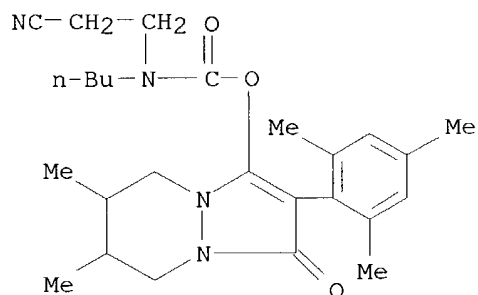
CN Carbamic acid, (2-cyanoethyl)(cyclohexylmethyl)-, 5,6,7,8-tetrahydro-6,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





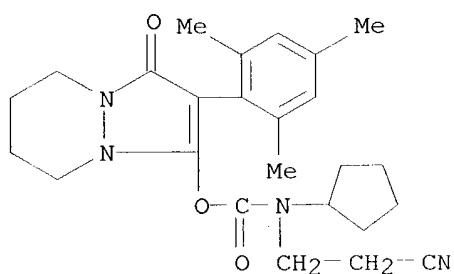
RN 180800-39-9 HCAPLUS

CN Carbamic acid, butyl(2-cyanoethyl)-, 5,6,7,8-tetrahydro-6,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)



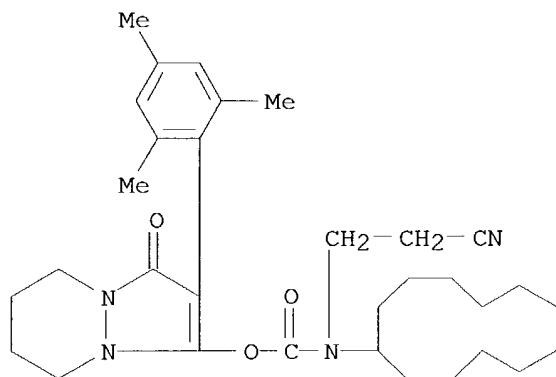
RN 180800-40-2 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)cyclopentyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



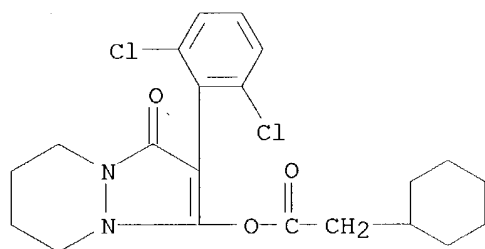
RN 180800-41-3 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)cyclododecyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



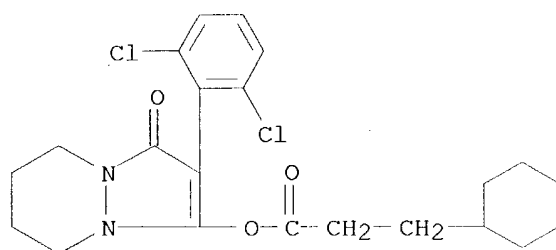
RN 180800-42-4 HCAPLUS

CN Cyclohexaneacetic acid, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



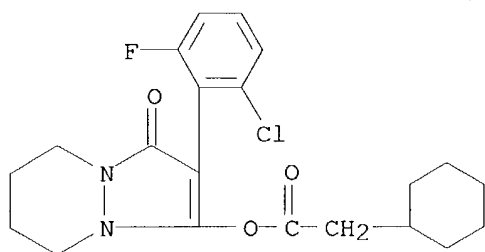
RN 180800-43-5 HCAPLUS

CN Cyclohexanepropanoic acid, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



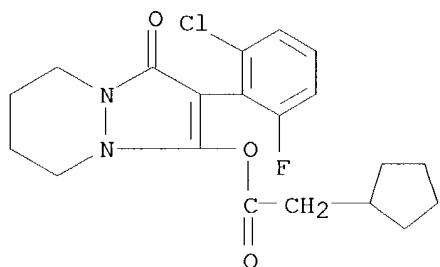
RN 180800-44-6 HCAPLUS

CN Cyclohexaneacetic acid, 2-(2-chloro-6-fluorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



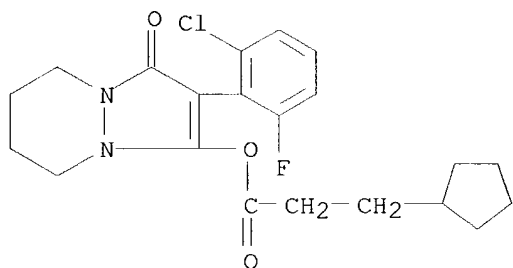
RN 180800-45-7 HCAPLUS

CN Cyclopentanecetic acid, 2-(2-chloro-6-fluorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



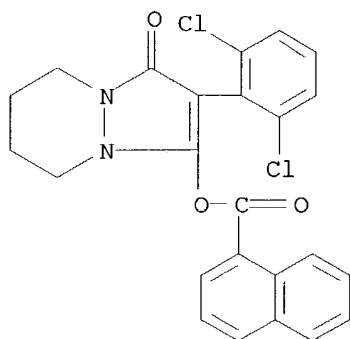
RN 180800-46-8 HCAPLUS

CN Cyclopentanepropanoic acid, 2-(2-chloro-6-fluorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



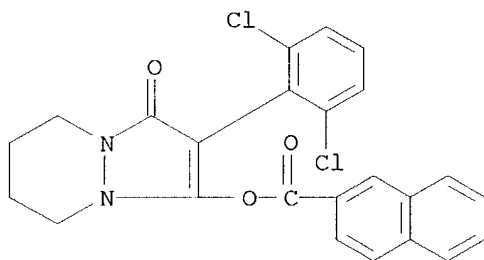
RN 180800-47-9 HCAPLUS

CN 1-Naphthalenecarboxylic acid, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



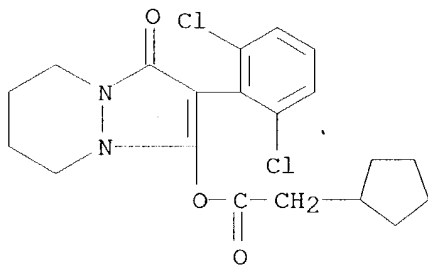
RN 180800-48-0 HCAPLUS

CN 2-Naphthalenecarboxylic acid, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



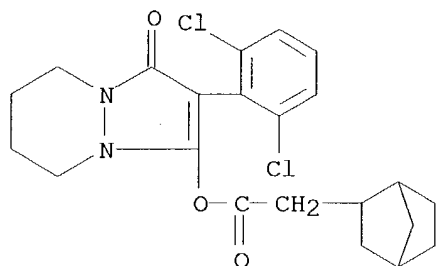
RN 180800-49-1 HCAPLUS

CN Cyclopentaneacetic acid, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



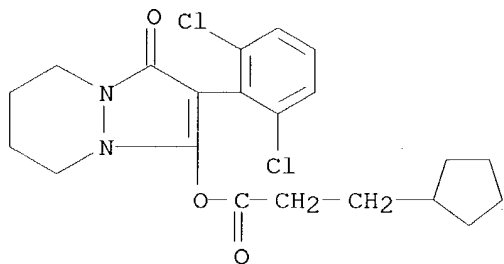
RN 180800-50-4 HCAPLUS

CN Bicyclo[2.2.1]heptane-2-acetic acid, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



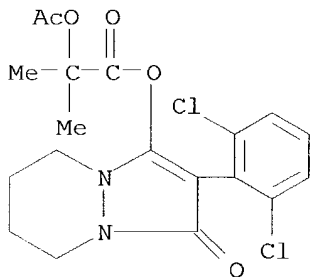
RN 180800-51-5 HCAPLUS

CN Cyclopentanepropanoic acid, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



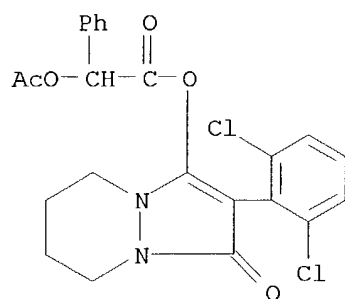
RN 180800-52-6 HCAPLUS

CN Propanoic acid, 2-(acetyloxy)-2-methyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



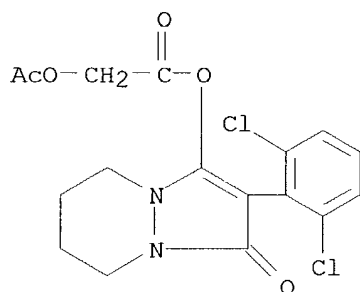
RN 180800-53-7 HCAPLUS

CN Benzeneacetic acid, .alpha.-(acetyloxy)-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



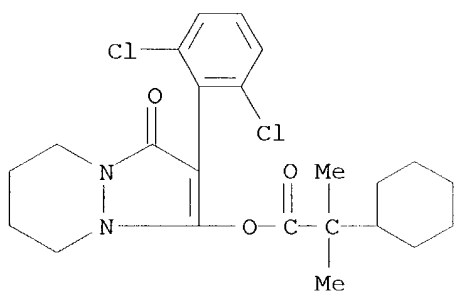
RN 180800-54-8 HCAPLUS

CN Acetic acid, (acetyloxy)-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



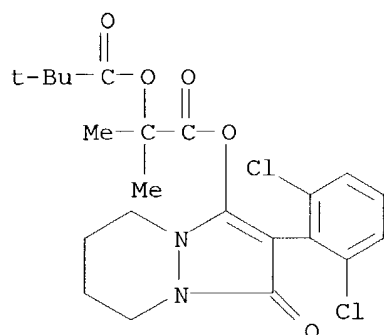
RN 180800-55-9 HCAPLUS

CN Cyclohexaneacetic acid, .alpha.,.alpha.-dimethyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



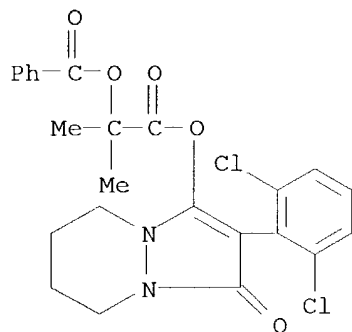
RN 180800-56-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[[2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl]oxy]-1,1-dimethyl-2-oxoethyl ester (9CI) (CA INDEX NAME)



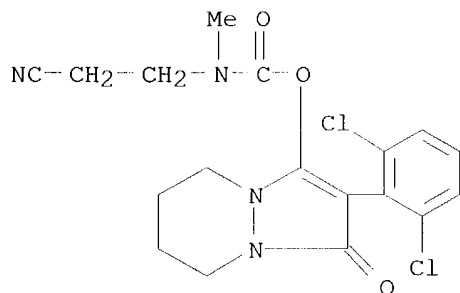
RN 180800-57-1 HCAPLUS

CN Propanoic acid, 2-(benzoyloxy)-2-methyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



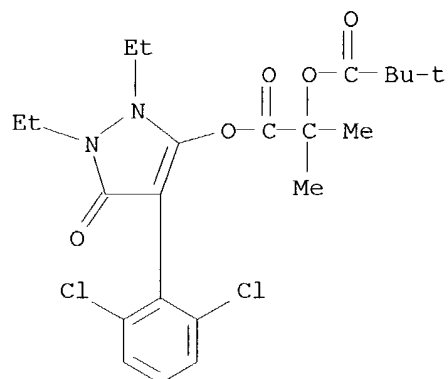
RN 180800-58-2 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)methyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



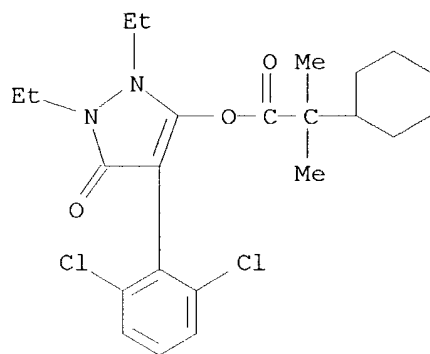
RN 180800-59-3 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2-[[4-(2,6-dichlorophenyl)-1,2-diethyl-2,5-dihydro-5-oxo-1H-pyrazol-3-yl]oxy]-1,1-dimethyl-2-oxoethyl ester (9CI) (CA INDEX NAME)



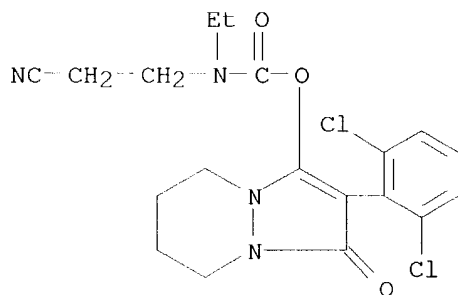
RN 180800-60-6 HCAPLUS

CN Cyclohexaneacetic acid, .alpha.,.alpha.-dimethyl-, 4-(2,6-dichlorophenyl)-1,2-diethyl-2,5-dihydro-5-oxo-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-61-7 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)ethyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

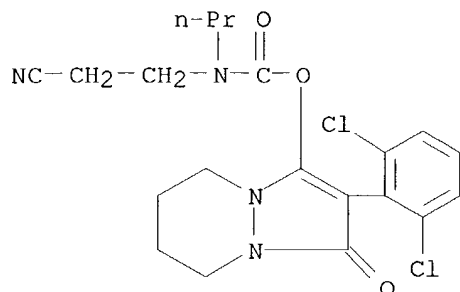


RN 180800-62-8 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)propyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-

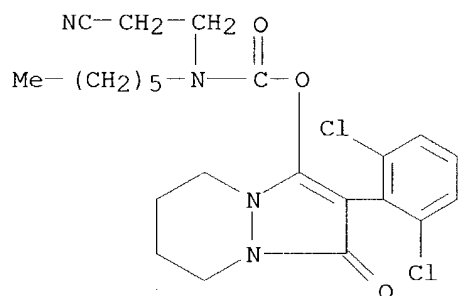


tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



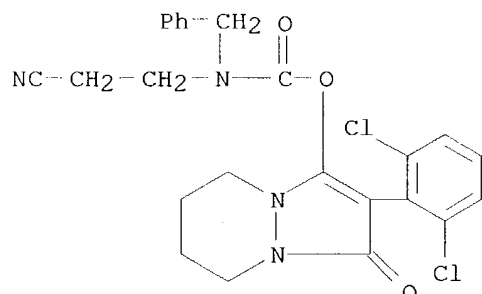
RN 180800-63-9 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)hexyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-64-0 HCAPLUS

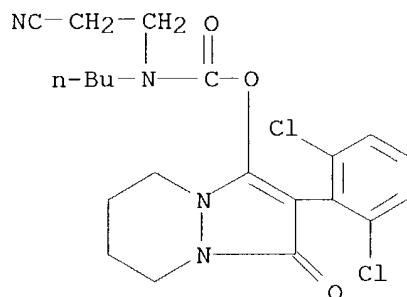
CN Carbamic acid, (2-cyanoethyl)(phenylmethyl)-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-65-1 HCAPLUS

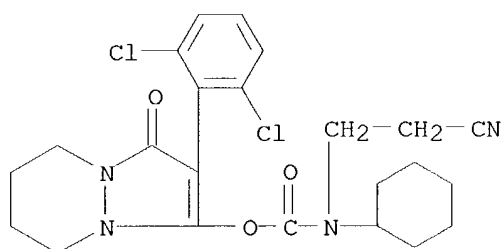
CN Carbamic acid, butyl(2-cyanoethyl)-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

NAME)



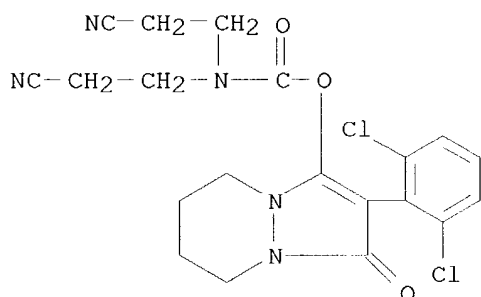
RN 180800-66-2 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)cyclohexyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



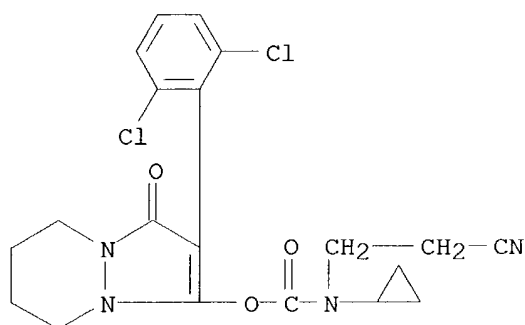
RN 180800-67-3 HCAPLUS

CN Carbamic acid, bis(2-cyanoethyl)-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



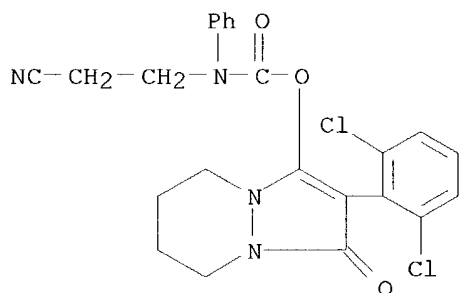
RN 180800-68-4 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)cyclopropyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



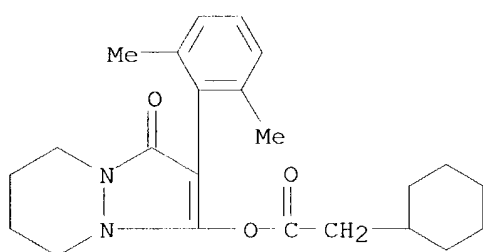
RN 180800-69-5 HCAPLUS

CN Carbamic acid, (2-cyanoethyl)phenyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



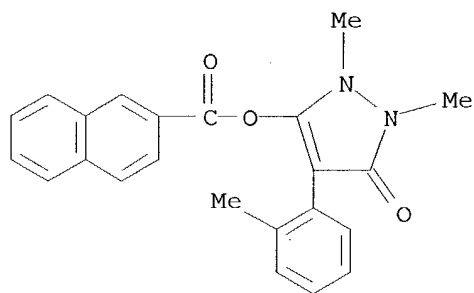
RN 180800-70-8 HCAPLUS

CN Cyclohexaneacetic acid, 2-(2,6-dimethylphenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



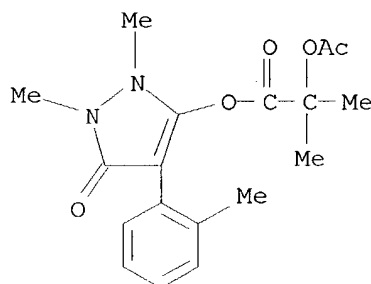
RN 180800-71-9 HCAPLUS

CN 2-Naphthalenecarboxylic acid, 2,5-dihydro-1,2-dimethyl-4-(2-methylphenyl)-5-oxo-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



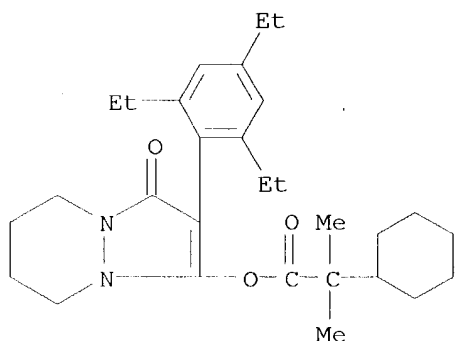
RN 180800-72-0 HCAPLUS

CN Propanoic acid, 2-(acetyloxy)-2-methyl-, 2,5-dihydro-1,2-dimethyl-4-(2-methylphenyl)-5-oxo-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



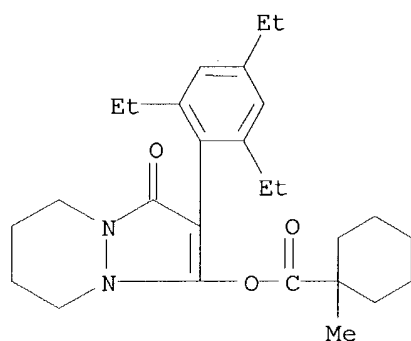
RN 180800-73-1 HCAPLUS

CN Cyclohexanecarboxylic acid, .alpha.,.alpha.-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-triethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



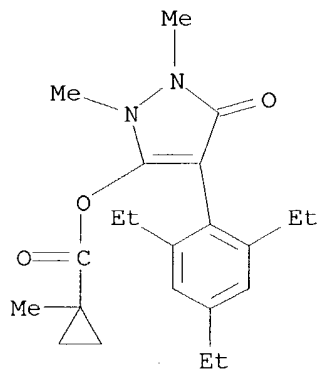
RN 180800-74-2 HCAPLUS

CN Cyclohexanecarboxylic acid, 1-methyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-triethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



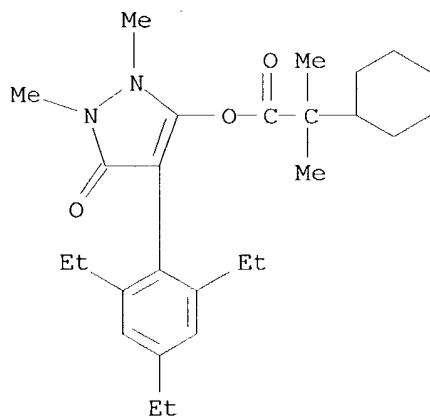
RN 180800-75-3 HCAPLUS

CN Cyclopropanecarboxylic acid, 1-methyl-, 2,5-dihydro-1,2-dimethyl-5-oxo-4-(2,4,6-triethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



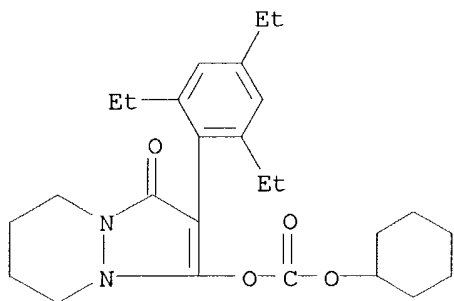
RN 180800-76-4 HCAPLUS

CN Cyclohexanecarboxylic acid, .alpha.,.alpha.-dimethyl-, 2,5-dihydro-1,2-dimethyl-5-oxo-4-(2,4,6-triethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



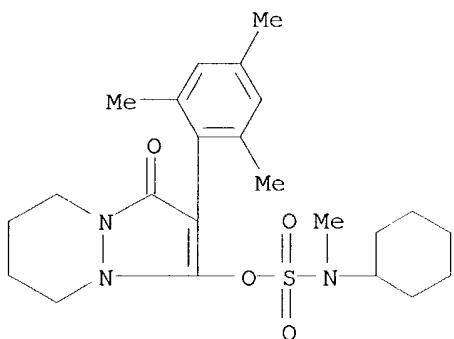
RN 180800-77-5 HCAPLUS

CN Carbonic acid, cyclohexyl 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-triethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



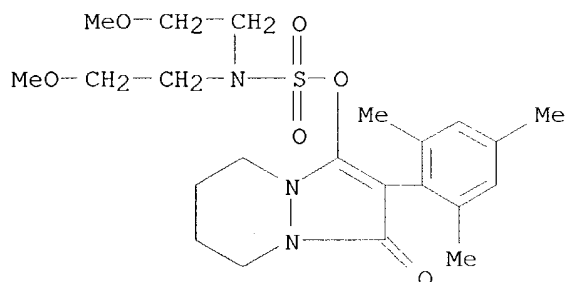
RN 180800-78-6 HCAPLUS

CN Sulfamic acid, cyclohexylmethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



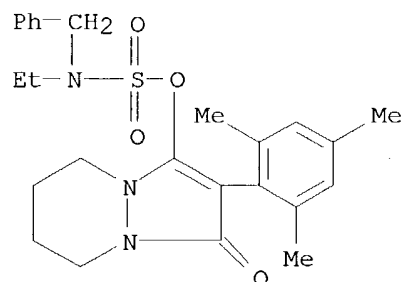
RN 180800-79-7 HCAPLUS

CN Sulfamic acid, bis(2-methoxyethyl)-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



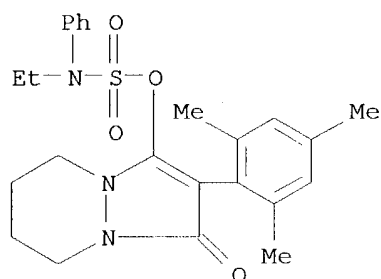
RN 180800-80-0 HCAPLUS

CN Sulfamic acid, ethyl(phenylmethyl)-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



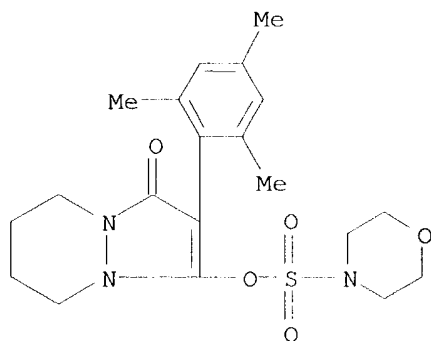
RN 180800-81-1 HCAPLUS

CN Sulfamic acid, ethylphenyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



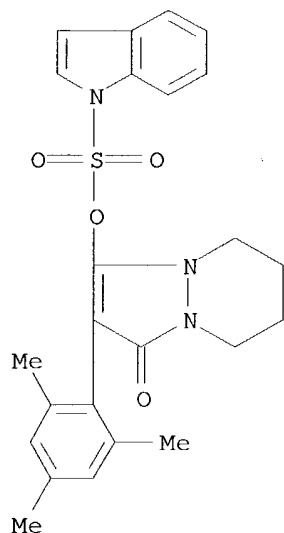
RN 180800-82-2 HCAPLUS

CN 4-Morpholinesulfonic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



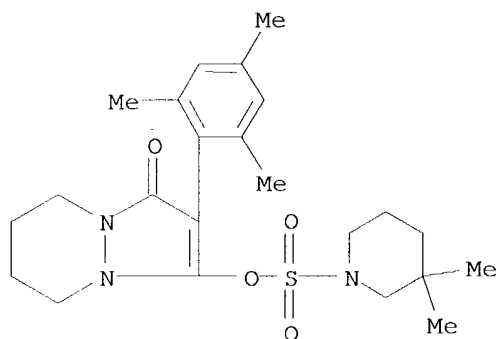
RN 180800-83-3 HCAPLUS

CN 1H-Indole-1-sulfonic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-84-4 HCAPLUS

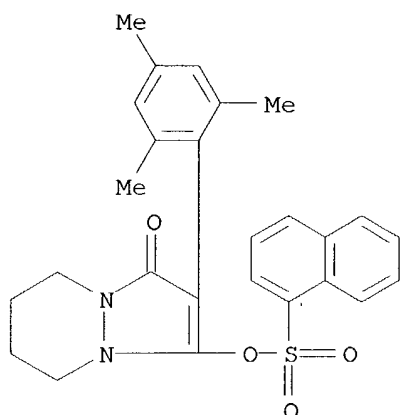
CN 1-Piperidinesulfonic acid, 3,3-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-85-5 HCAPLUS

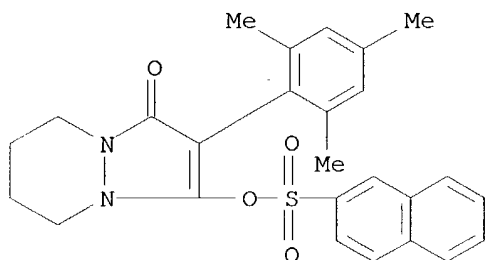
CN 1-Naphthalenesulfonic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





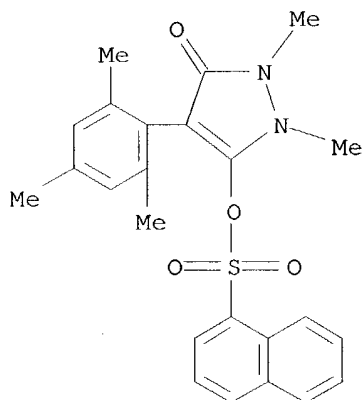
RN 180800-86-6 HCAPLUS

CN 2-Naphthalenesulfonic acid, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-87-7 HCAPLUS

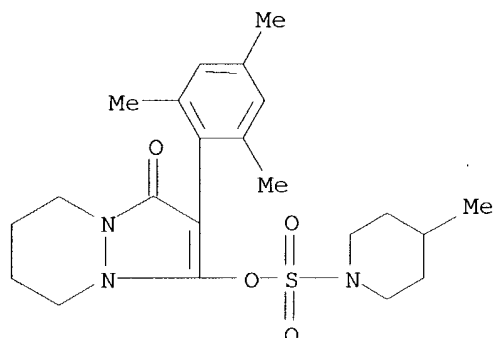
CN 1-Naphthalenesulfonic acid, 2,5-dihydro-1,2-dimethyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-88-8 HCAPLUS

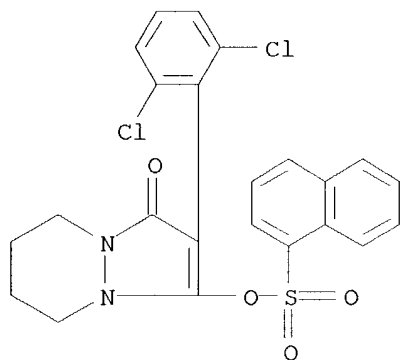
CN 1-Piperidinesulfonic acid, 4-methyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-

trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



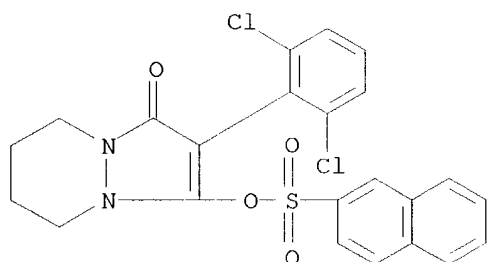
RN 180800-89-9 HCAPLUS

CN 1-Naphthalenesulfonic acid, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-90-2 HCAPLUS

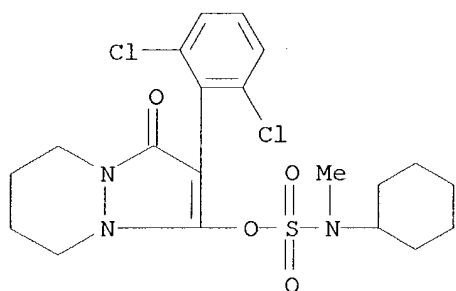
CN 2-Naphthalenesulfonic acid, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 180800-91-3 HCAPLUS

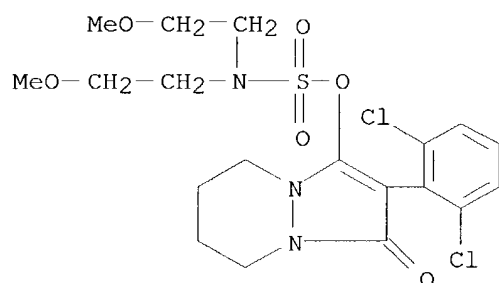
CN Sulfamic acid, cyclohexylmethyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

NAME)



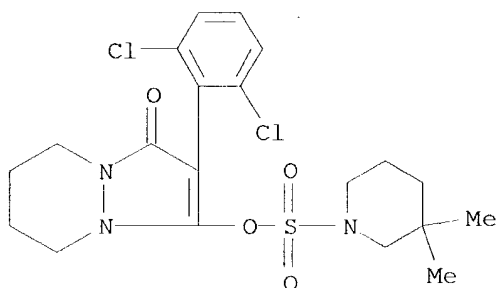
RN 180800-92-4 HCAPLUS

CN Sulfamic acid, bis(2-methoxyethyl)-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



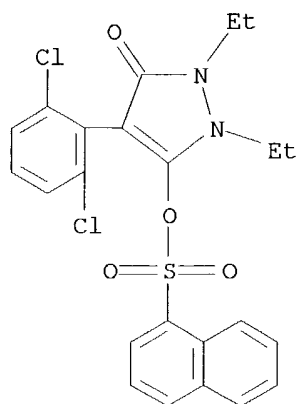
RN 180800-93-5 HCAPLUS

CN 1-Piperidinesulfonic acid, 3,3-dimethyl-, 2-(2,6-dichlorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



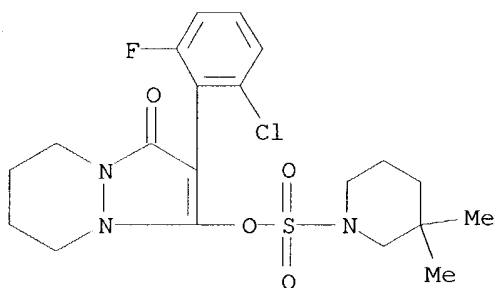
RN 180800-94-6 HCAPLUS

CN 1-Naphthalenesulfonic acid, 4-(2,6-dichlorophenyl)-1,2-diethyl-2,5-dihydro-5-oxo-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



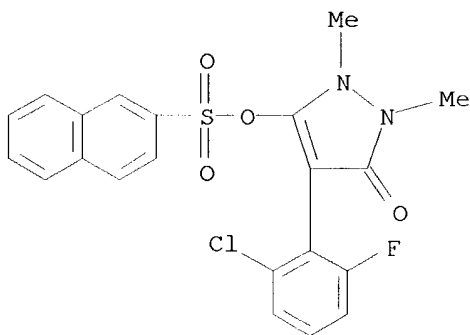
RN 180800-95-7 HCAPLUS

CN 1-Piperidinesulfonic acid, 3,3-dimethyl-, 2-(2-chloro-6-fluorophenyl)-5,6,7,8-tetrahydro-1-oxo-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



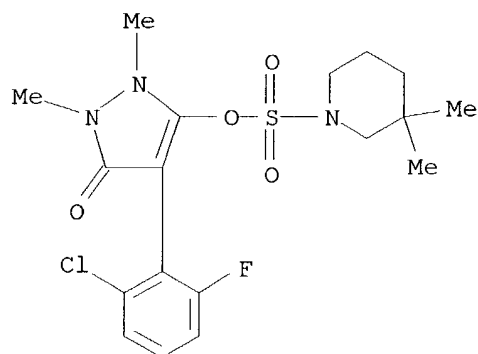
RN 180800-96-8 HCAPLUS

CN 2-Naphthalenesulfonic acid, 4-(2-chloro-6-fluorophenyl)-2,5-dihydro-1,2-dimethyl-5-oxo-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)

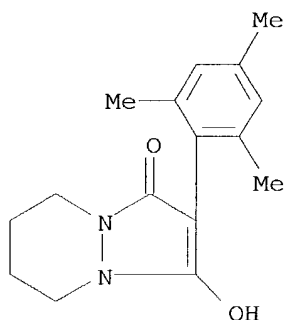


RN 180800-97-9 HCAPLUS

CN 1-Piperidinesulfonic acid, 3,3-dimethyl-, 4-(2-chloro-6-fluorophenyl)-2,5-dihydro-1,2-dimethyl-5-oxo-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



IT **144757-98-2**, 3-Hydroxy-4-mesityl-5-oxo-1,2-tetramethylenepyrzoline  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (starting material; prepn. of pyrazoline derivs. as pesticides)  
 RN 144757-98-2 HCAPLUS  
 CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



L19 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1996:388344 HCAPLUS  
 DOCUMENT NUMBER: 125:51494  
 TITLE: Safened herbicidal compositions  
 INVENTOR(S): Glock, Jutta; Hudetz, Manfred; Kerber, Elmar  
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.  
 SOURCE: PCT Int. Appl., 105 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--|------|----------|-----------------|----------|
| WO 9611574   | A1   | 19960425 | WO 1995-EP3935  | 19951005 |
| W: AL, AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, |      |          |                 |          |

RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN  
 RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,  
 LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,  
 SN, TD, TG

|   |    |          |                 |          |
|---|----|----------|-----------------|----------|
| CA 2199636                                    | AA | 19960425 | CA 1995-2199636 | 19951005 |
| AU 9536536                                    | A1 | 19960506 | AU 1995-36536   | 19951005 |
| EP 786937                                     | A2 | 19970806 | EP 1995-934134  | 19951005 |
| R: AT, BE, CH, DE, ES, FR, GB, GR, LI, NL, PT |    |          |                 |          |
| BR 9509374                                    | A  | 19971230 | BR 1995-9374    | 19951005 |
| JP 10507189                                   | T2 | 19980714 | JP 1995-512904  | 19951005 |
| ZA 9508712                                    | A  | 19960710 | ZA 1995-8712    | 19951016 |

PRIORITY APPLN. INFO.: CH 1994-3120 19941017  
 WO 1995-EP3935 19951005

OTHER SOURCE(S): CASREACT 125:51494; MARPAT 125:51494

AB Selective herbicidal compns. for controlling grasses and weeds in crops comprise a herbicide and an antidote. The herbicide is I [R1 = (un)substituted Ph, naphthyl or pyridinyl etc.; A, B = H, alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, cycloalkyl, (un)substituted aryl; AB = divalent radical of a satd. or unsatd. (un)substituted mono-, bi-, tri- or polycyclic system; G = H, COR2, etc.; R2 = haloalkyl, haloalkenyl, etc.]. 2-(2,4,6-Trimethylphenyl)-5,6,7,8-tetrahydro-1H-pyrazolo[1,2-a]pyridazine-1,3(2H)dione (prepn. given) is an example. The antidotes are quinoline derivs. II [R2 = H, (un)substituted alkyl, etc.; X1 = H or Cl] or 1-phenylazole-3-carboxylic acid derivs. (Markush given).

IC ICM A01N043-90

ICS A01N043-56; A01N025-32

CC 5-3 (Agrochemical Bioregulators)

Section cross-reference(s): 28

IT **144757-98-2P**

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. as **herbicide**)

IT 178177-63-4 178177-65-6 **178177-67-8**

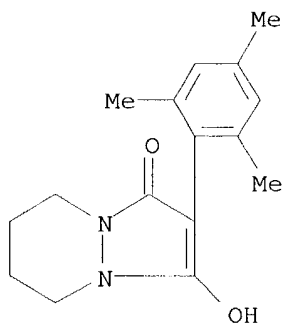
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (safener **herbicidal** compn.)

IT **144757-98-2P**

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. as **herbicide**)

RN 144757-98-2 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



IT 178177-67-8

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(safener **herbicidal** compn.)

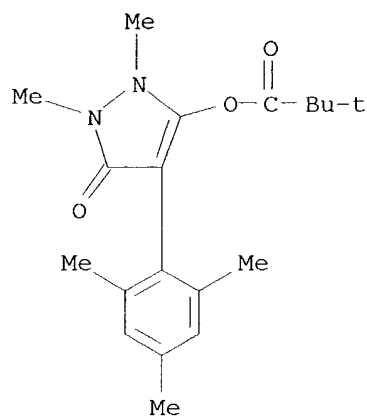
RN 178177-67-8 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2,5-dihydro-1,2-dimethyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester, compd. with 1-methylhexyl [(5-chloro-8-quinolinyl)oxy]acetate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 178177-66-7

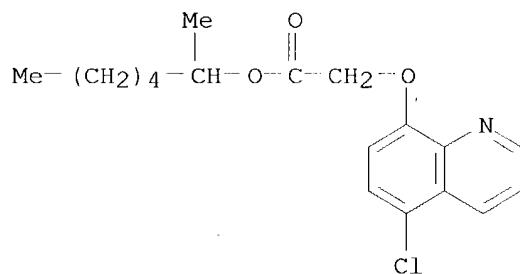
CMF C19 H26 N2 O3



CM 2

CRN 99607-70-2

CMF C18 H22 Cl N O3



L19 ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:444237 HCAPLUS

DOCUMENT NUMBER: 122:213917

TITLE: Substituted aryl keto-enol heterocycles useful as pesticides

INVENTOR(S): Bachmann, Juergen; Bretschneider, Thomas; Fischer,

Reiner; Krueger, Bernd-Wieland; Santel, Hans-Joachim;  
 Dollinger, Markus; Erdelen, Christoph;  
 Wachendorff-Neumann, Ulrike  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen., 29 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.   | KIND   | DATE                                   | APPLICATION NO. | DATE        |
|--|--|--|-----------------|-------------|
| DE 4413669   | A1   | 19950112                               | DE 1994-4413669 | 19940420    |
| WO 9501971   | A1   | 19950119                               | WO 1994-EP2042  | 19940622    |
| W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, NO, NZ, PL, RO, RU, SK, UA, US                                  |  |  |                 |             |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG |  |  |                 |             |
| AU 9470726   | A1   | 19950206                               | AU 1994-70726   | 19940622    |
| EP 707576  | A1   | 19960424                               | EP 1994-919657  | 19940622    |
| EP 707576  | B1   | 19990303                               |                 |             |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT  |  |  |                 |             |
| BR 9407006   | A  | 19960806                               | BR 1994-7006    | 19940622    |
| CN 1129444   | A  | 19960821                               | CN 1994-193093  | 19940622    |
| HU 73746   | A2   | 19960930                               | HU 1996-34      | 19940622    |
| JP 09500116  | T2   | 19970107                               | JP 1995-503788  | 19940622    |
| JP 3404747   | B2   | 20030512                               |                 |             |
| AT 177093  | E  | 19990315                               | AT 1994-919657  | 19940622    |
| ES 2130431   | T3   | 19990701                               | ES 1994-919657  | 19940622    |
| US 5683965   | A  | 19971104                               | US 1996-569194  | 19960513    |
| PRIORITY APPLN. INFO.:   |  |  | DE 1993-4322273 | A1 19930705 |
|  |  |  | DE 1994-4413669 | A 19940420  |
|  |  |  | WO 1994-EP2042  | W 19940622  |
| OTHER SOURCE(S):   |  | CASREACT 122:213917; MARPAT 122:213917 |                 |             |
| AB   | Title compds. I [X = alkyl, halo, alkoxy; Y = H, alkyl, halo, alkoxy, haloalkyl; Z = alkyl, halo, alkoxy; n = 0-3; Het = group Q1, Q2, or Q3; A, B, E = H, (halo-substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, (hetero)cycloalkyl, (un)substituted (hetero)aryl, aralkyl; or AB or AE forms (un)satd., (un)interrupted, and/or (un)substituted ring(s); L = alkanediyl; M = variety of org. terminal structures and functional groups including cyano, amide, esters, (thio)ethers, alkynyl, aryl, etc.] and their enantiomers are claimed, and over 30 specific examples are given. The compds. are useful as pesticides, particularly as acaricides, insecticides, fungicides, and herbicides. For example, O-alkylation of 3-(2,4,6-trimethylphenyl)-4-hydroxy-5,5-pentamethylene-.DELTA.3-dihydrofuran-2-one by ClCH2OEt in CH2Cl2 in the presence of Et3N and a small amt. of DMAP at 0-10.degree. gave 53% title compd. II. At a rate of 0.02% (spray), II gave 98% kill of OP-resistant Tetranychus urticae, and 100% kill of Panonychus ulmi, after 7 days. Addnl. insecticidal and preemergence herbicidal results are given. |  |                 |             |
| IC   | ICM C07D307-94<br>ICS C07D307-60; C07D207-36; C07D209-96; C07D231-34; C07D471-04; A01N043-08; A01N043-12; A01N043-36; A01N043-56; A01N043-90   |  |                 |             |
| ICI  | C07D471-04, C07D221-00, C07D209-00; C07D471-04, C07D231-00, C07D237-00   |  |                 |             |
| CC   | 27-6 (Heterocyclic Compounds (One Hetero Atom))<br>Section cross-reference(s): 5   |  |                 |             |



IT Acaricides

Defoliants

Herbicides

Insecticides

Pesticides

Plant desiccants

(prepn. of substituted aryl keto-enol heterocycles as pesticides)

IT 161800-24-4P 161800-25-5P 161800-26-6P 161800-27-7P 161800-28-8P  
 161800-29-9P 161800-30-2P 161800-31-3P 161800-32-4P 161800-33-5P  
 161800-34-6P 161800-35-7P 161800-36-8P 161800-37-9P 161800-38-0P  
 161800-39-1P 161800-40-4P 161800-41-5P 161800-42-6P 161800-43-7P  
 161800-44-8P 161800-45-9P 161800-46-0P 161800-47-1P 161800-48-2P  
 161800-49-3P 161800-50-6P 161800-51-7P 161800-52-8P 161800-53-9P  
 161800-54-0P 161800-55-1P 161800-56-2P **161800-57-3P**

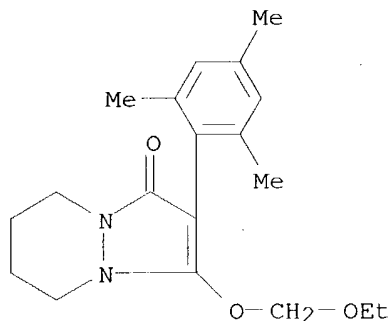
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of substituted aryl keto-enol heterocycles as pesticides)

IT **161800-57-3P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of substituted aryl keto-enol heterocycles as pesticides)

RN 161800-57-3 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 3-(ethoxymethoxy)-5,6,7,8-tetrahydro-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



L19 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:227595 HCAPLUS

DOCUMENT NUMBER: 122:25904

TITLE: Preparation of 3-hydroxy-4-aryl-5-oxopyrazoline derivatives as insecticides, acaricides and herbicides.

INVENTOR(S): Krueger, Bernd-Wieland; Fischer, Reiner; Bertram, Heinz-Juergen; Bretschneider, Thomas; Boehm, Stefan; Krebs, Andreas; Schenke, Thomas; Santel, Hans-Joachim; Lurssen, Klaus; et al.

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: U.S., 30 pp. Cont.-in-part of U.S. Ser. No. 849,863, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|------------|------|----------|-----------------|----------|
| US 5358924 | A    | 19941025 | US 1992-999058  | 19921231 |
| DE 4109208 | A1   | 19920924 | DE 1991-4109208 | 19910321 |
| US 5474974 | A    | 19951212 | US 1994-233911  | 19940428 |
| US 5661110 | A    | 19970826 | US 1995-476171  | 19950607 |
| US 5739389 | A    | 19980414 | US 1996-774469  | 19961230 |
| US 5780394 | A    | 19980714 | US 1997-788715  | 19970123 |
| US 6221810 | B1   | 20010424 | US 1998-52290   | 19980331 |

PRIORITY APPLN. INFO.:  
 DE 1991-4109208 A 19910321  
 US 1992-849863 B2 19920312  
 US 1992-968888 A2 19921216  
 US 1992-999058 A3 19921231  
 US 1994-233911 A3 19940428  
 US 1995-476171 A3 19950607  
 US 1997-788715 A3 19970123

OTHER SOURCE(S): MARPAT 122:25904

AB The 3-hydroxy-4-aryl-5-oxopyrazoline derivs. I [A,B= H, alkyl, alkenyl, alkynyl, alkoxyalkyl, alkythioalkyl, cycloalkyl or (un)substituted aryl; AB= bivalent radical of an (un)satd. (un)substituted mono-, bi-, tri- or polycyclic system; X,Zn = W, where Z = alkyl, halo or alkoxy; Y=X,H,haloalkyl and n=0, 1-3; G=H,COR1, etc.; R1=(halo)alkyl, alkenyl, alkynyl, etc.] are prepd. as insecticides, acaricides or herbicides. Mesityl chlorocarbonyl ketene was reacted with piperidazine in Et3N-contg. ether, to give 3-hydroxy-4-mesityl-5-oxo-1,2-tetramethylenepyrzoline (II). II (1%) totally controlled *Lucilia cuprina* larvae.

IC ICM A01N057-24  
 ICS C07D237-26; C07F009-40  
 NCL 504197000  
 CC 5-4 (Agrochemical Bioregulators)  
 Section cross-reference(s): 28

IT Acaricides

**Herbicides**

**Insecticides**

(prepn. of hydroxy(aryl)oxopyrazoline derivs. as insecticides, acaricides and herbicides)

IT 144758-00-9P 144758-01-0P 144758-02-1P  
 144758-03-2P 144758-04-3P 144758-05-4P  
 144758-06-5P 144758-07-6P 144758-08-7P  
 144758-09-8P 144758-10-1P 144758-11-2P  
 144758-12-3P 144758-13-4P 144758-14-5P  
 144758-15-6P 144758-16-7P 144758-17-8P  
 144758-18-9P 144758-19-0P 144758-20-3P  
 144758-21-4P 144758-22-5P 144758-23-6P  
 144758-25-8P 159796-86-8P 159796-87-9P  
 159796-88-0P 159796-89-1P 159796-90-4P  
 159796-91-5P 159796-92-6P 159796-93-7P  
 159796-94-8P 159796-95-9P 159796-96-0P  
 159796-97-1P 159796-98-2P 159796-99-3P  
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159797-15-6P 159797-16-7P 159797-17-8P

159797-18-9P 159797-19-0P 159797-20-3P

159797-21-4P 159797-22-5P 159797-23-6P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of hydroxy(aryl)oxopyrazoline derivs. as insecticides, acaricides and herbicides)

IT 144758-00-9P 144758-01-0P 144758-02-1P

144758-03-2P 144758-04-3P 144758-05-4P

144758-06-5P 144758-07-6P 144758-08-7P

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144758-12-3P 144758-13-4P 144758-14-5P

144758-15-6P 144758-16-7P 144758-17-8P

144758-18-9P 144758-19-0P 144758-20-3P

144758-21-4P 144758-22-5P 144758-23-6P

144758-25-8P 159796-86-8P 159796-87-9P

159796-88-0P 159796-89-1P 159796-90-4P

159796-91-5P 159796-92-6P 159796-93-7P

159796-94-8P 159796-95-9P 159796-96-0P

159796-97-1P 159796-98-2P 159796-99-3P

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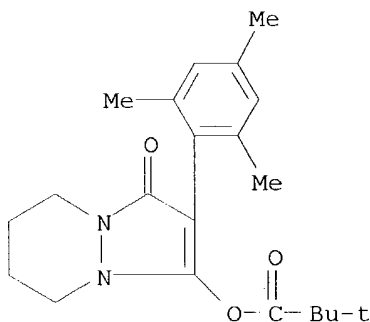
159797-21-4P 159797-22-5P 159797-23-6P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of hydroxy(aryl)oxopyrazoline derivs. as insecticides, acaricides and herbicides)

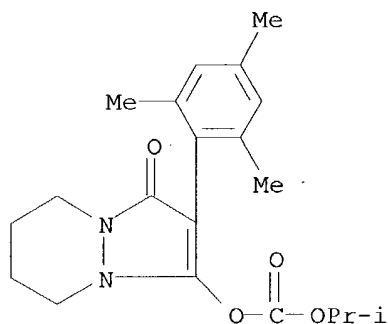
RN 144758-00-9 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



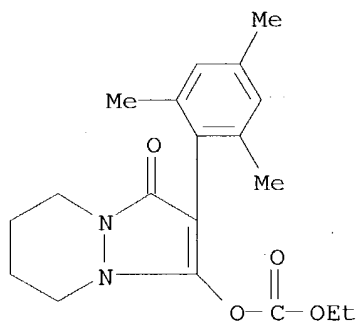
RN 144758-01-0 HCAPLUS

CN Carbonic acid, 1-methylethyl 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



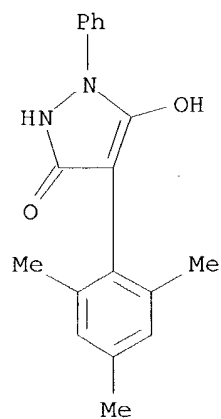
RN 144758-02-1 HCAPLUS

CN Carbonic acid, ethyl 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 144758-03-2 HCAPLUS

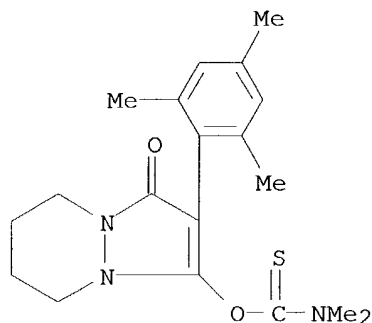
CN 3H-Pyrazol-3-one, 1,2-dihydro-5-hydroxy-1-phenyl-4-(2,4,6-trimethylphenyl)-(9CI) (CA INDEX NAME)



RN 144758-04-3 HCAPLUS

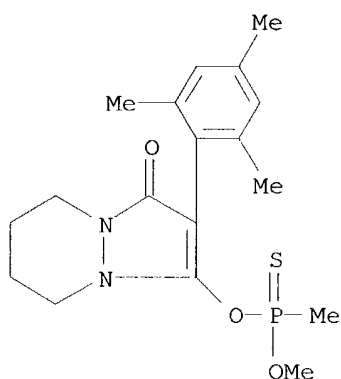
CN Carbamothioic acid, dimethyl-, O-[5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-

trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl] ester (9CI) (CA INDEX NAME)



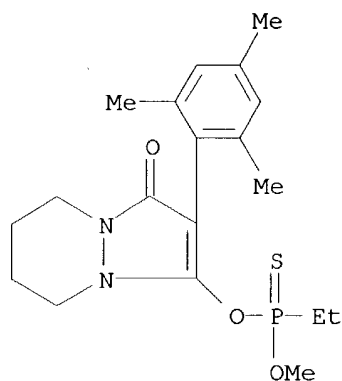
RN 144758-05-4 HCAPLUS

CN Phosphonothioic acid, methyl-, O-methyl O-[5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl] ester (9CI) (CA INDEX NAME)



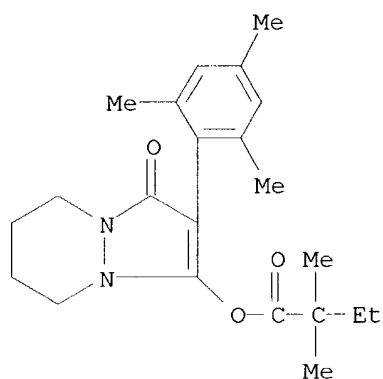
RN 144758-06-5 HCAPLUS

CN Phosphonothioic acid, ethyl-, O-methyl O-[5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl] ester (9CI) (CA INDEX NAME)



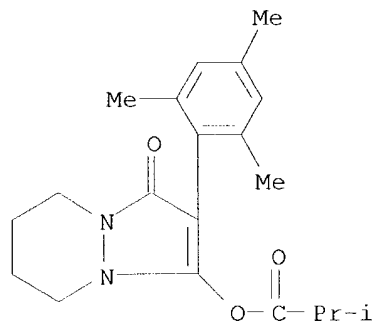
RN 144758-07-6 HCAPLUS

CN Butanoic acid, 2,2-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 144758-08-7 HCAPLUS

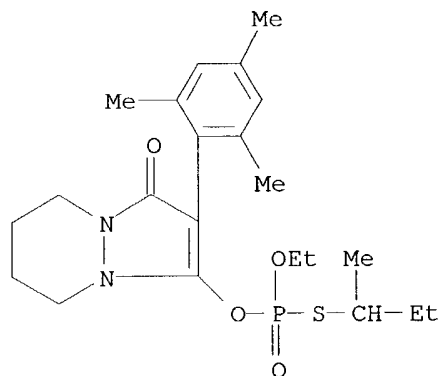
CN Propanoic acid, 2-methyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 144758-09-8 HCAPLUS

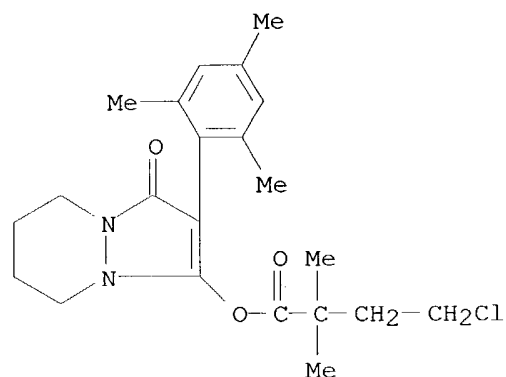
CN Phosphorothioic acid, O-ethyl S-(1-methylpropyl) O-[5,6,7,8-tetrahydro-1-

oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl] ester  
(9CI) (CA INDEX NAME)



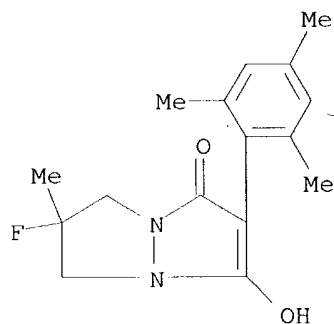
RN 144758-10-1 HCAPLUS

CN Butanoic acid, 4-chloro-2,2-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

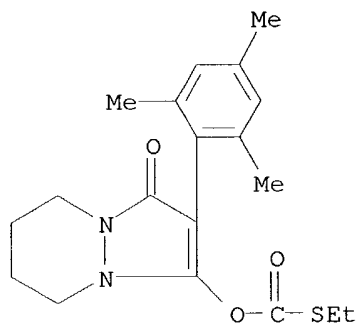


RN 144758-11-2 HCAPLUS

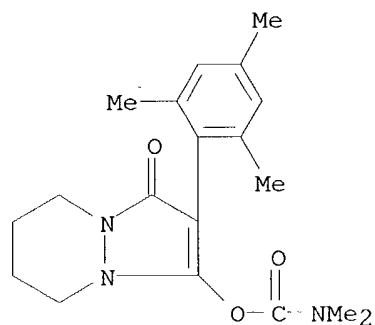
CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 6-fluoro-6,7-dihydro-3-hydroxy-6-methyl-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



RN 144758-12-3 HCAPLUS  
CN Carbonothioic acid, S-ethyl O-[5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl] ester (9CI) (CA INDEX NAME)

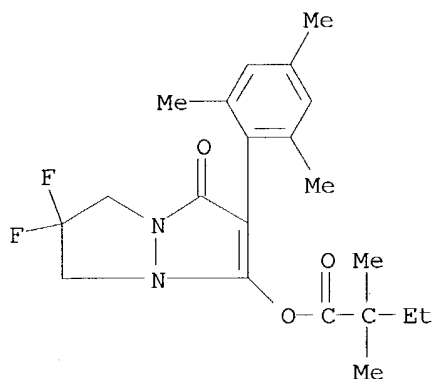


RN 144758-13-4 HCAPLUS  
CN Carbamic acid, dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



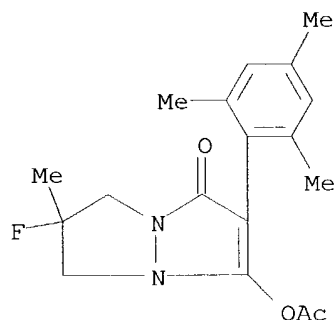
RN 144758-14-5 HCAPLUS  
CN Butanoic acid, 2,2-dimethyl-, 6,6-difluoro-6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)





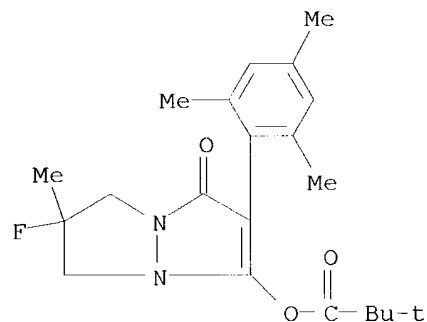
RN 144758-15-6 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 3-(acetyloxy)-6-fluoro-6,7-dihydro-6-methyl-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



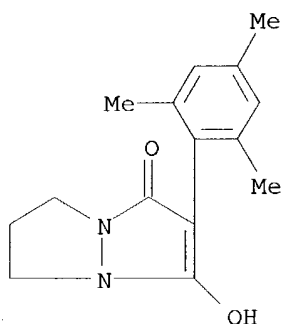
RN 144758-16-7 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 6-fluoro-6,7-dihydro-6-methyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



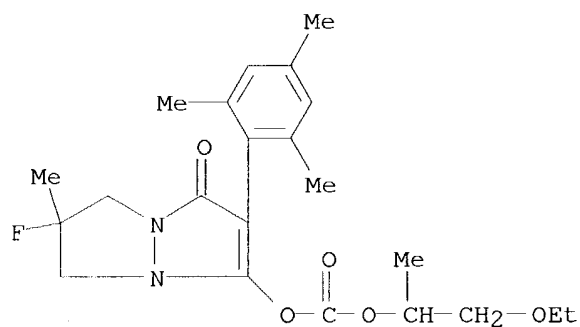
RN 144758-17-8 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 6,7-dihydro-3-hydroxy-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



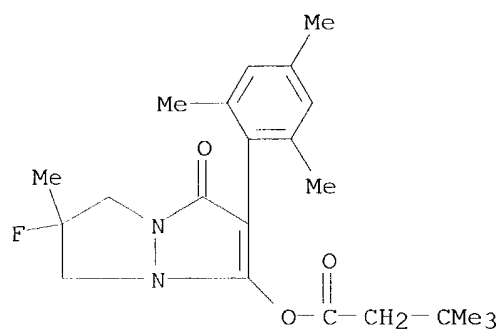
RN 144758-18-9 HCAPLUS

CN Carbonic acid, 2-ethoxy-1-methylethyl 6-fluoro-6,7-dihydro-6-methyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



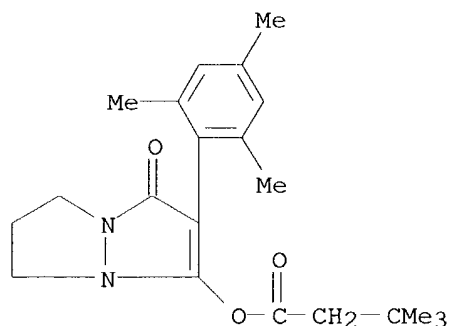
RN 144758-19-0 HCAPLUS

CN Butanoic acid, 3,3-dimethyl-, 6-fluoro-6,7-dihydro-6-methyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



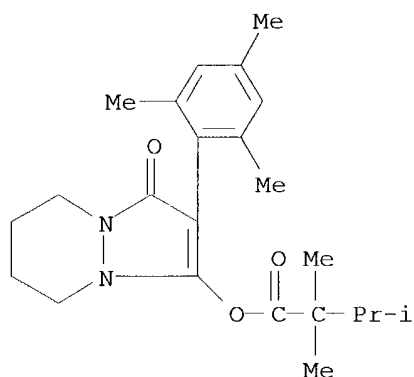
RN 144758-20-3 HCAPLUS

CN Butanoic acid, 3,3-dimethyl-, 6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



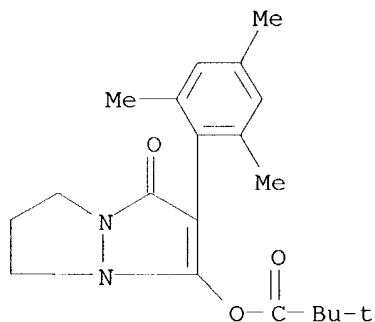
RN 144758-21-4 HCAPLUS

CN Butanoic acid, 2,2,3-trimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 144758-22-5 HCAPLUS

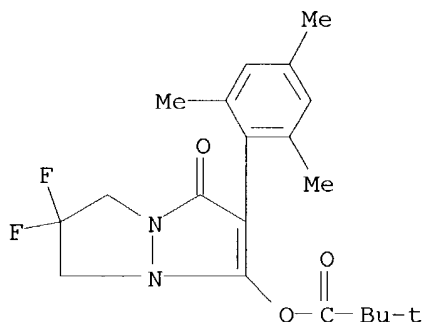
CN Propanoic acid, 2,2-dimethyl-, 6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



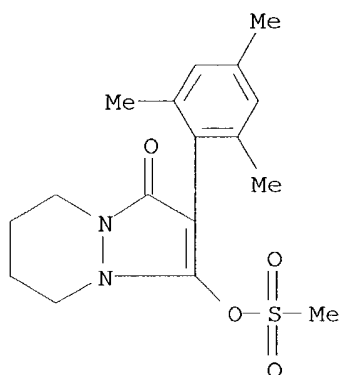
RN 144758-23-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 6,6-difluoro-6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)

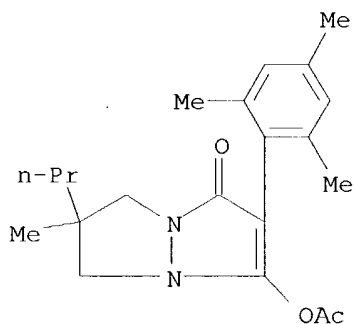
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RN 144758-25-8 HCAPLUS

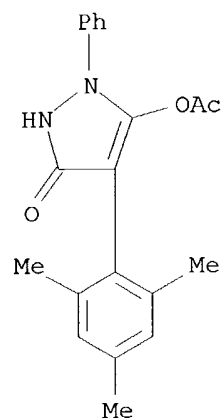
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-  
[(methanesulfonyl)oxy]-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)

RN 159796-86-8 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 3-(acetyloxy)-6,7-dihydro-6-methyl-6-  
propyl-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)

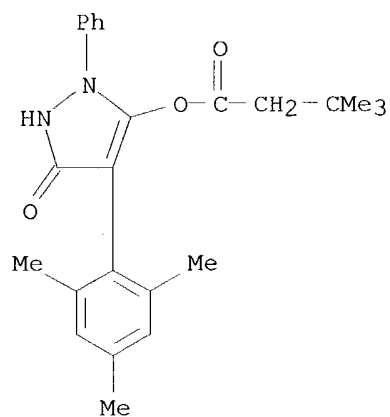
RN 159796-87-9 HCAPLUS

CN 3H-Pyrazol-3-one, 5-(acetyloxy)-1,2-dihydro-1-phenyl-4-(2,4,6-  
trimethylphenyl)- (9CI) (CA INDEX NAME)



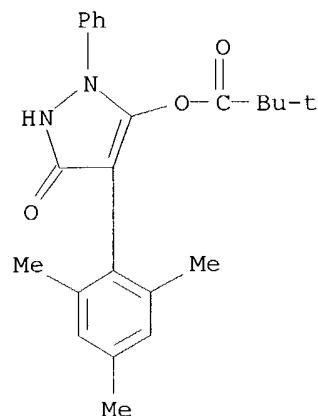
RN 159796-88-0 HCAPLUS

CN Butanoic acid, 3,3-dimethyl-, 2,5-dihydro-2-phenyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



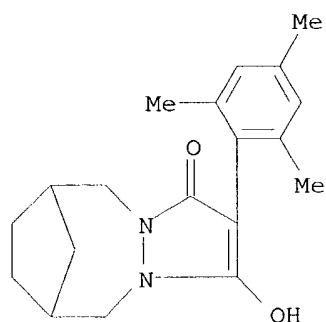
RN 159796-89-1 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2,5-dihydro-2-phenyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



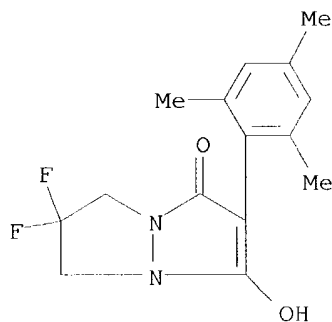
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CN 6,9-Methano-1H-pyrazolo[1,2-a][1,2]diazocin-1-one, 5,6,7,8,9,10-hexahydro-3-hydroxy-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



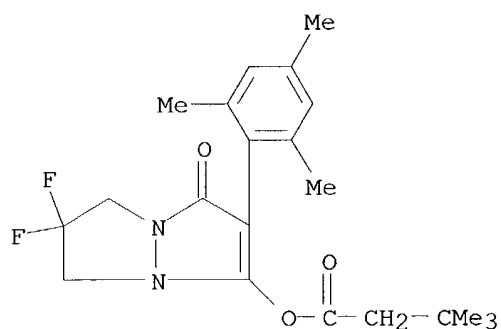
RN 159796-91-5 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 6,6-difluoro-6,7-dihydro-3-hydroxy-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



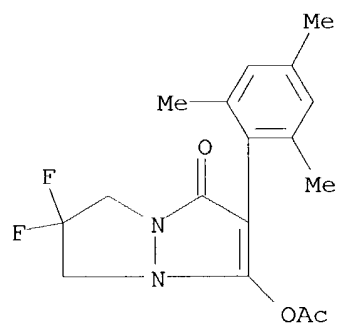
RN 159796-92-6 HCAPLUS

CN Butanoic acid, 3,3-dimethyl-, 6,6-difluoro-6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



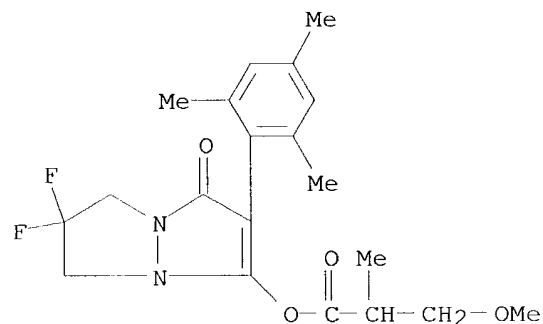
RN 159796-93-7 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 3-(acetyloxy)-6,6-difluoro-6,7-dihydro-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



RN 159796-94-8 HCAPLUS

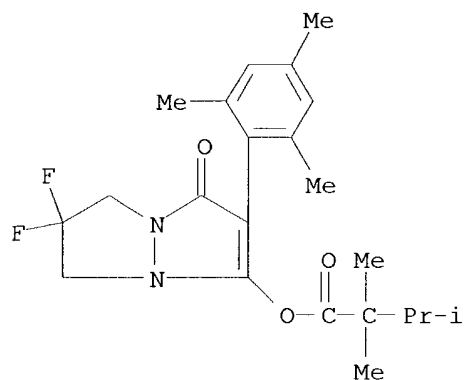
CN Propanoic acid, 3-methoxy-2-methyl-, 6,6-difluoro-6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 159796-95-9 HCAPLUS

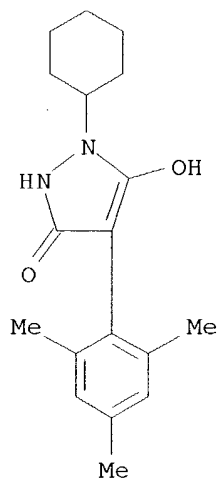
CN Butanoic acid, 2,2,3-trimethyl-, 6,6-difluoro-6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)

NAME)



RN 159796-96-0 HCAPLUS

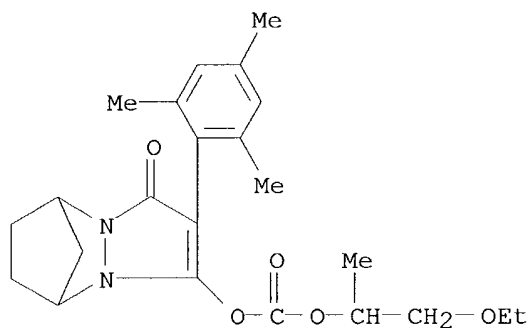
CN 3H-Pyrazol-3-one, 1-cyclohexyl-1,2-dihydro-5-hydroxy-4-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



RN 159796-97-1 HCAPLUS

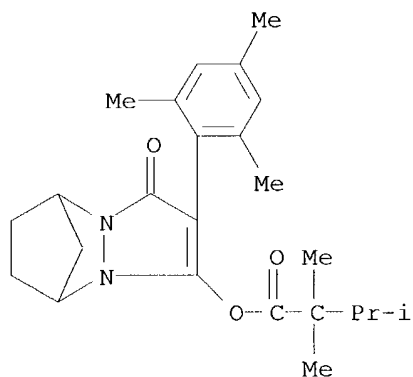
CN Carbonic acid, 2-ethoxy-1-methylethyl 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-5,8-methano-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





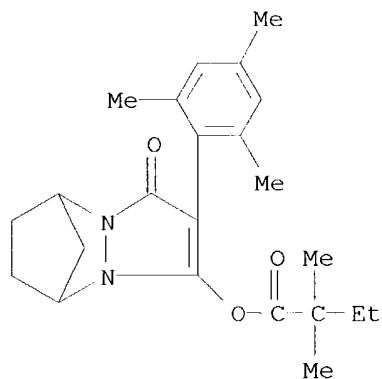
RN 159796-98-2 HCAPLUS

CN Butanoic acid, 2,2,3-trimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-5,8-methano-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)



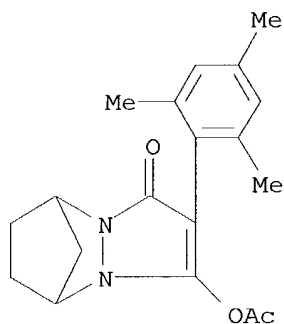
RN 159796-99-3 HCAPLUS

CN Butanoic acid, 2,2-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-5,8-methano-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI)  
(CA INDEX NAME)



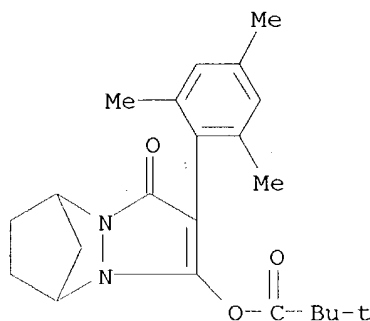
RN 159797-00-9 HCAPLUS

CN 5,8-Methano-1H-pyrazolo[1,2-a]pyridazin-1-one, 3-(acetyloxy)-5,6,7,8-tetrahydro-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



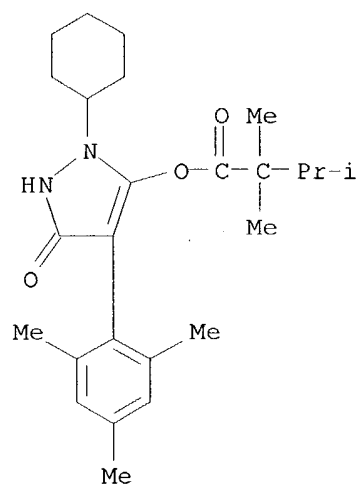
RN 159797-01-0 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-5,8-methano-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



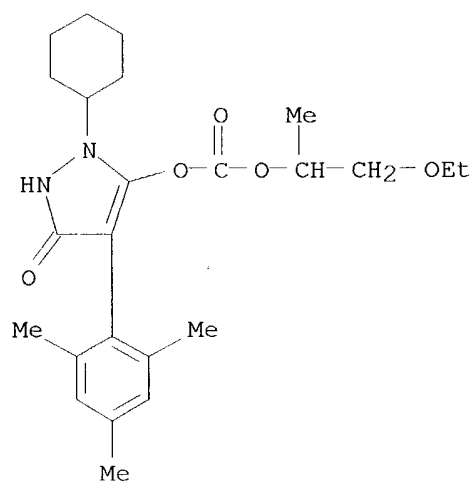
RN 159797-02-1 HCAPLUS

CN Butanoic acid, 2,2,3-trimethyl-, 2-cyclohexyl-2,5-dihydro-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



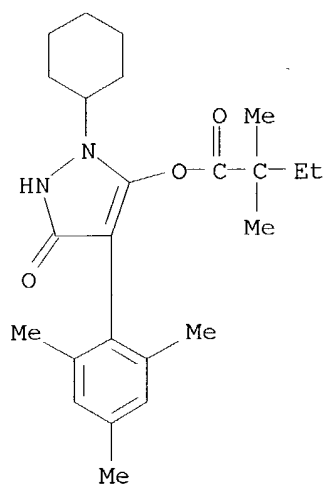
RN 159797-03-2 HCAPLUS

CN Carbonic acid, 2-cyclohexyl-2,5-dihydro-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl 2-ethoxy-1-methylethyl ester (9CI) (CA INDEX NAME)



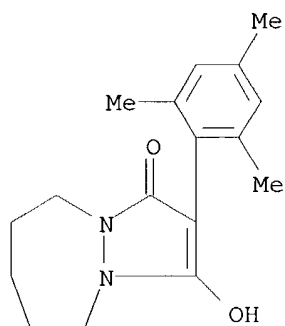
RN 159797-04-3 HCAPLUS

CN Butanoic acid, 2,2-dimethyl-, 2-cyclohexyl-2,5-dihydro-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



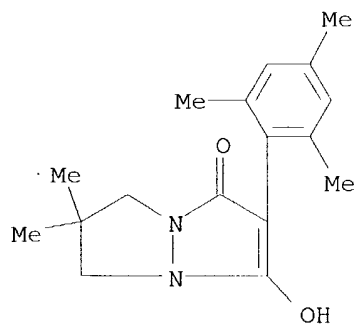
RN 159797-05-4 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 6,7,8,9-tetrahydro-3-hydroxy-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



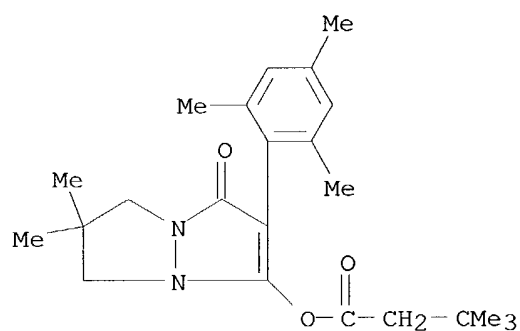
RN 159797-06-5 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 6,7-dihydro-3-hydroxy-6,6-dimethyl-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



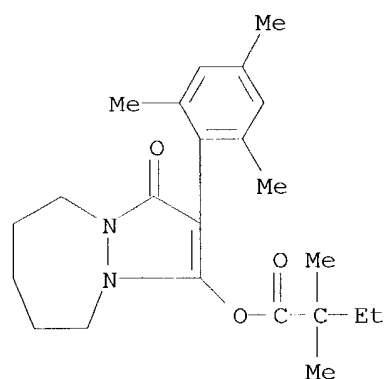
RN 159797-07-6 HCAPLUS

CN Butanoic acid, 3,3-dimethyl-, 6,7-dihydro-6,6-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



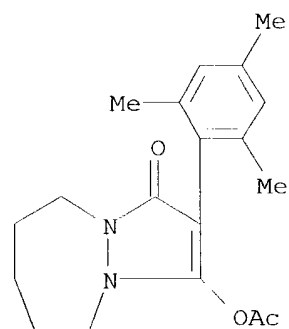
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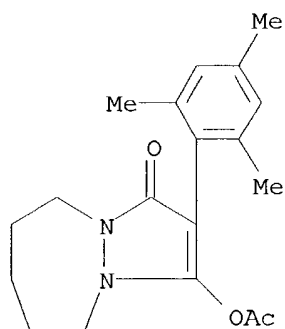
CN Butanoic acid, 2,2-dimethyl-, 6,7,8,9-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a][1,2]diazepin-3-yl ester (9CI) (CA INDEX NAME)



RN 159797-09-8 HCAPLUS

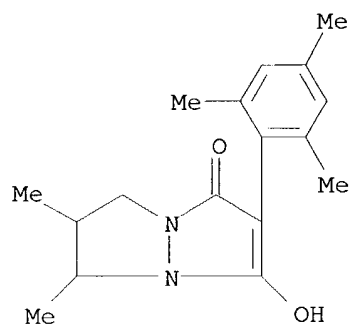
CN 1H,5H-Pyrazolo[1,2-a][1,2]diazepin-1-one, 3-(acetyloxy)-6,7,8,9-tetrahydro-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)





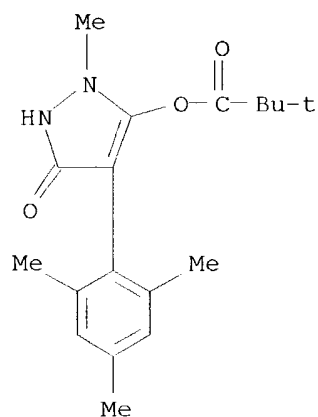
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CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 6,7-dihydro-3-hydroxy-5,6-dimethyl-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



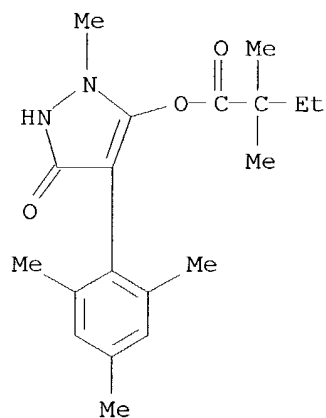
RN 159797-11-2 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 2,5-dihydro-2-methyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



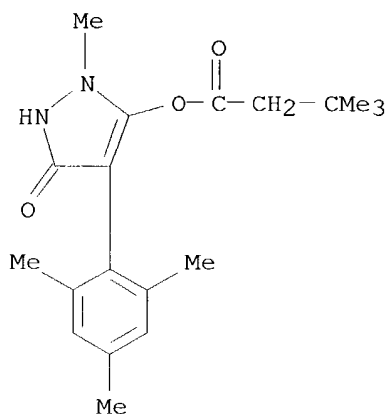
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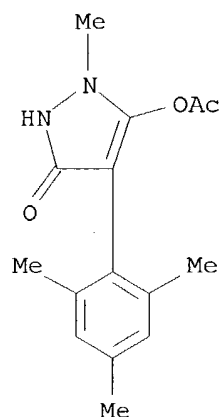
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CN Butanoic acid, 3,3-dimethyl-, 2,5-dihydro-2-methyl-5-oxo-4-(2,4,6-trimethylphenyl)-1H-pyrazol-3-yl ester (9CI) (CA INDEX NAME)



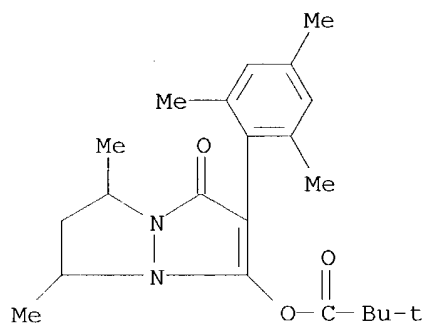
RN 159797-14-5 HCAPLUS

CN 3H-Pyrazol-3-one, 5-(acetyloxy)-1,2-dihydro-1-methyl-4-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



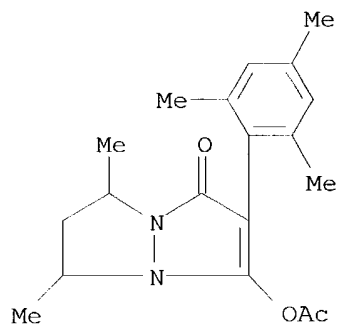
RN 159797-15-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 6,7-dihydro-5,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 159797-16-7 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 3-(acetyloxy)-6,7-dihydro-5,7-dimethyl-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)

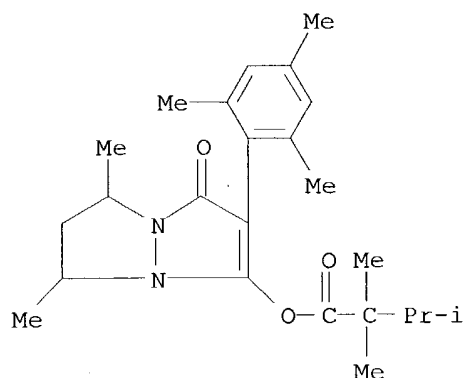


RN 159797-17-8 HCAPLUS

CN Butanoic acid, 2,2,3-trimethyl-, 6,7-dihydro-5,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)

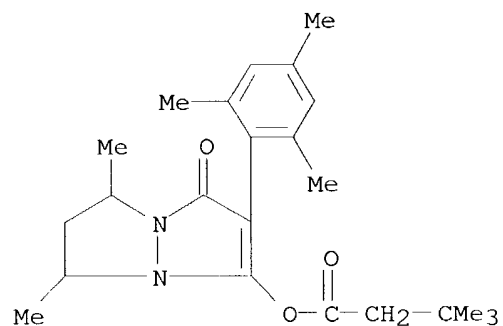


NAME)



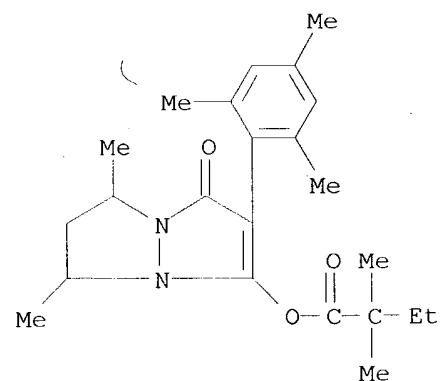
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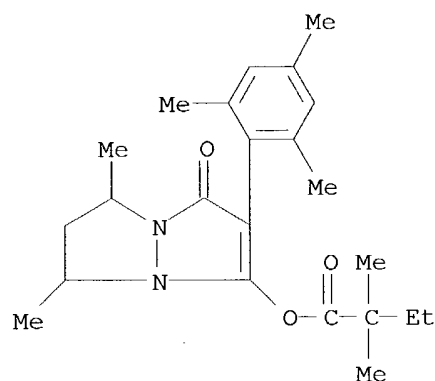
CN Butanoic acid, 3,3-dimethyl-, 6,7-dihydro-5,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 159797-19-0 HCAPLUS

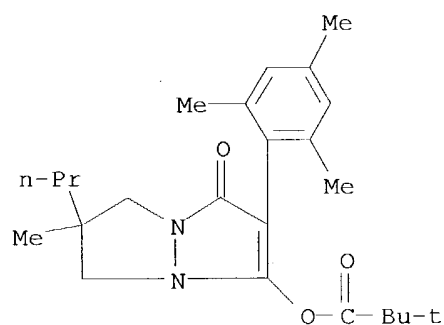
CN Butanoic acid, 2,2-dimethyl-, 6,7-dihydro-5,7-dimethyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)





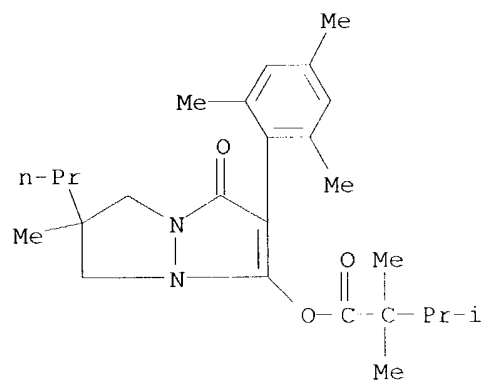
RN 159797-20-3 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 6,7-dihydro-6-methyl-1-oxo-6-propyl-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 159797-21-4 HCAPLUS

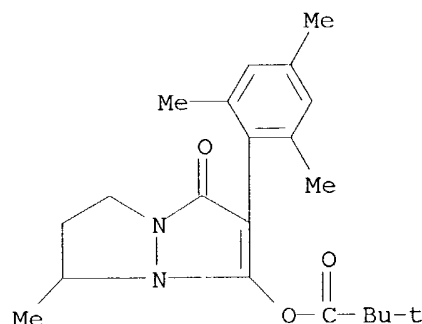
CN Butanoic acid, 2,2,3-trimethyl-, 6,7-dihydro-6-methyl-1-oxo-6-propyl-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 159797-22-5 HCAPLUS

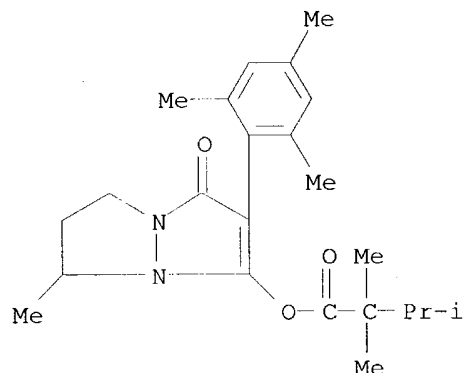
CN Propanoic acid, 2,2-dimethyl-, 6,7-dihydro-5-methyl-1-oxo-2-(2,4,6-

trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 159797-23-6 HCAPLUS

CN Butanoic acid, 2,2,3-trimethyl-, 6,7-dihydro-5-methyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



L19 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1993:22227 HCAPLUS

DOCUMENT NUMBER: 118:22227

TITLE: 3-Hydroxy-4-aryl-5-oxopyrazoline derivatives, their preparation, and their use as pesticides and herbicides

INVENTOR(S): Krueger, Bernd Wieland; Fischer, Reiner; Bertram, Heinz Juergen; Bretschneider, Thomas; Boehm, Stefan; Krebs, Andreas; Schenke, Thomas; Santel, Hans Joachim; Luerksen, Klaus; et al.

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 45 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO.                                | KIND  | DATE     | APPLICATION NO. | DATE        |
|---|---|----------|-----------------|-------------|
| DE 4109208                                | A1  | 19920924 | DE 1991-4109208 | 19910321    |
| EP 508126                                 | A1  | 19921014 | EP 1992-104044  | 19920310    |
| EP 508126                                 | B1  | 19970502 |                 |             |
| R: BE, CH, DE, ES, FR, GB, GR, IT, LI, NL |   |          |                 |             |
| ES 2101764                                | T3  | 19970716 | ES 1992-104044  | 19920310    |
| JP 05117240                               | A2  | 19930514 | JP 1992-91438   | 19920318    |
| JP 3100223                                | B2  | 20001016 |                 |             |
| BR 9200983                                | A   | 19921117 | BR 1992-983     | 19920320    |
| US 5332720                                | A   | 19940726 | US 1992-968888  | 19921216    |
| US 5358924                                | A   | 19941025 | US 1992-999058  | 19921231    |
| US 5474974                                | A   | 19951212 | US 1994-233911  | 19940428    |
| US 5661110                                | A   | 19970826 | US 1995-476171  | 19950607    |
| US 5739389                                | A   | 19980414 | US 1996-774469  | 19961230    |
| US 5780394                                | A   | 19980714 | US 1997-788715  | 19970123    |
| US 6221810                                | B1  | 20010424 | US 1998-52290   | 19980331    |
| PRIORITY APPLN. INFO.:                    |   |          | DE 1991-4109208 | A 19910321  |
|   |   |          | US 1992-849863  | B3 19920312 |
|   |   |          | US 1992-968888  | A2 19921216 |
|   |   |          | US 1992-999058  | A3 19921231 |
|   |   |          | US 1994-233911  | A3 19940428 |
|   |   |          | US 1995-476171  | A3 19950607 |
|   |   |          | US 1997-788715  | A3 19970123 |
| OTHER SOURCE(S): MARPAT 118:22227         |   |          |                 |             |
| AB  | Title compds. I [A, B = H, alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, cycloalkyl, (un)substituted aryl; or AB = (un)satd. (un)substituted (bi- or higher cyclic) bivalent group; X = alkyl, halo, alkoxy; Y = H, alkyl, halo, alkoxy, haloalkyl; Z = alkyl, halo, alkoxy; n = 0-3; G = H, certain (un)substituted acyl, sulfonyl, phosphoryl, and (thio)carbamoyl groups] were prep'd. as pesticides (esp. insecticides and acaricides), herbicides, etc. For example, reaction of mesityl(chlorocarbonyl)ketene (prepn. given) with piperidazine in Et <sub>2</sub> O contg. Et <sub>3</sub> N at 50.degree., and treatment of the product in THF with ice-HCl, gave 66% I [AB = (CH <sub>2</sub> ) <sub>4</sub> , X = Y = Me, Zn = 6-Me, G = H]. Various I were superior to the known compd. 3-acetyloxy-2-phenyl-1H-inden-1-one in tests against resistant Tetranychus urticae, Plutella maculipennis, and resistant Lucilia cuprina larvae, and some I showed superior herbicidal activity and crop selectivity. |          |                 |             |
| IC  | ICM C07D487-04<br>ICS C07D487-08; C07D231-32; C07D231-54; C07F009-6503; A01N043-90; A01N043-56; A01N057-24; A01N057-16; A01N047-18; A01N047-06  |          |                 |             |
| ICI                                       | C07D231-32, C07D247-00; A01N043-90, A01N043-66, A01N047-36, A01N043-707, A01N037-48, A01N043-88, A01N043-58   |          |                 |             |
| CC  | 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))<br>Section cross-reference(s): 5  |          |                 |             |
| IT  | Acaricides<br>Defoliants<br>Herbicides<br>Insecticides<br>Nematocides<br>Pesticides<br>Plant desiccants<br>(hydroxyaryloxopyrazolines)  |          |                 |             |
| IT  | 144757-98-2P 144757-99-3P 144758-00-9P<br>144758-01-0P 144758-02-1P 144758-03-2P<br>144758-04-3P 144758-05-4P 144758-06-5P  |          |                 |             |

144758-07-6P 144758-08-7P 144758-09-8P  
 144758-10-1P 144758-11-2P 144758-12-3P  
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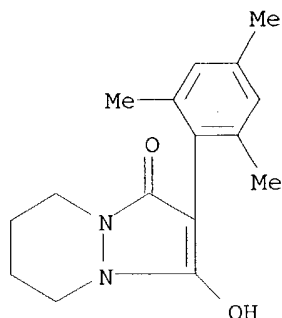
RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of, as pesticide and **herbicide**)

IT 144757-98-2P 144757-99-3P 144758-00-9P  
 144758-01-0P 144758-02-1P 144758-03-2P  
 144758-04-3P 144758-05-4P 144758-06-5P  
 144758-07-6P 144758-08-7P 144758-09-8P  
 144758-10-1P 144758-11-2P 144758-12-3P  
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RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of, as pesticide and **herbicide**)

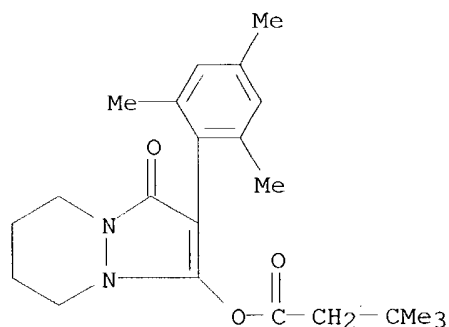
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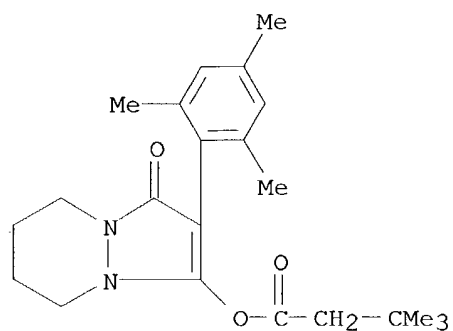
CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



RN 144757-99-3 HCAPLUS

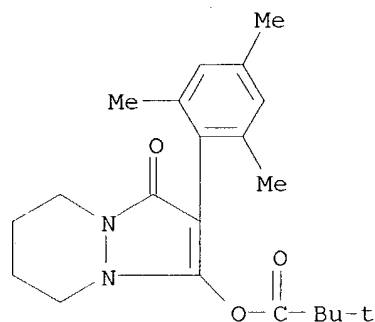
CN Butanoic acid, 3,3-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





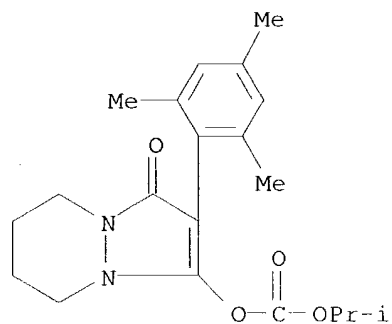
RN 144758-00-9 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



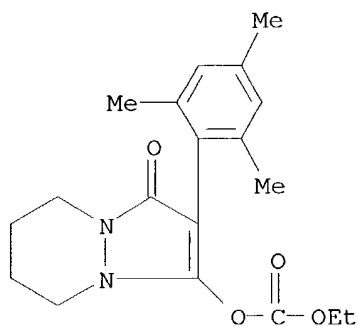
RN 144758-01-0 HCAPLUS

CN Carbonic acid, 1-methylethyl 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

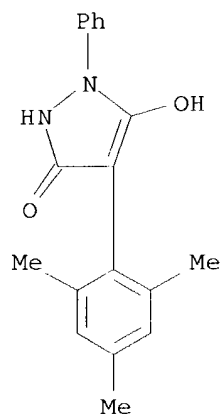


RN 144758-02-1 HCAPLUS

CN Carbonic acid, ethyl 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)

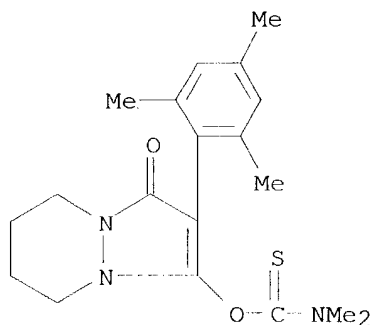


RN 144758-03-2 HCAPLUS

CN 3H-Pyrazol-3-one, 1,2-dihydro-5-hydroxy-1-phenyl-4-(2,4,6-trimethylphenyl)-  
(9CI) (CA INDEX NAME)

RN 144758-04-3 HCAPLUS

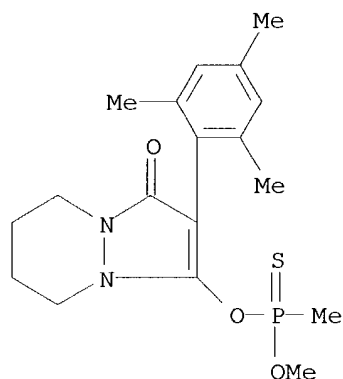
CN Carbamothioic acid, dimethyl-, O-[5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl] ester (9CI) (CA INDEX NAME)



RN 144758-05-4 HCAPLUS

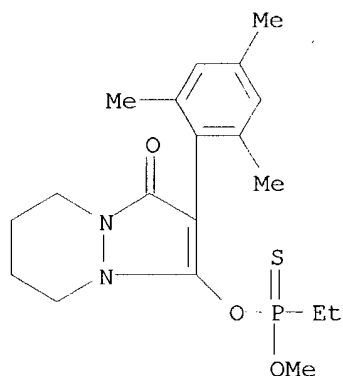
CN Phosphonothioic acid, methyl-, O-methyl O-[5,6,7,8-tetrahydro-1-oxo-2-

(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl] ester (9CI) (CA INDEX NAME)



RN 144758-06-5 HCAPLUS

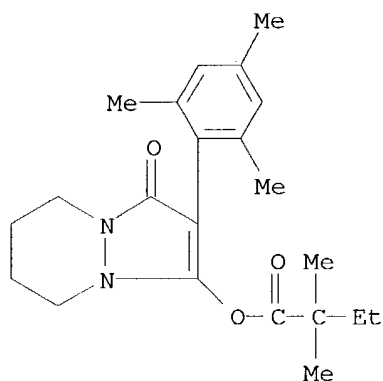
CN Phosphonothioic acid, ethyl-, O-methyl O-[5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl] ester (9CI) (CA INDEX NAME)



RN 144758-07-6 HCAPLUS

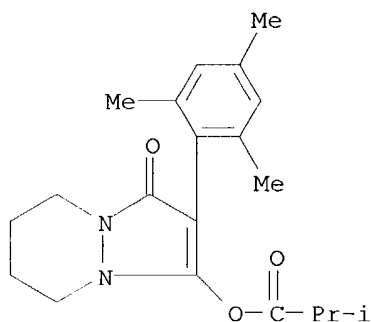
CN Butanoic acid, 2,2-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)





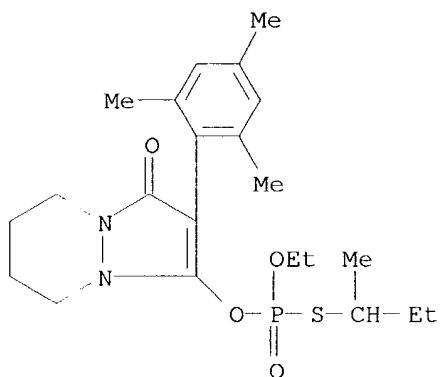
RN 144758-08-7 HCAPLUS

CN Propanoic acid, 2-methyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



RN 144758-09-8 HCAPLUS

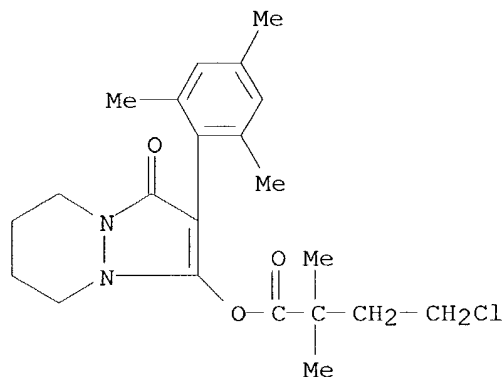
CN Phosphorothioic acid, O-ethyl S-(1-methylpropyl) O-[5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl] ester (9CI) (CA INDEX NAME)



RN 144758-10-1 HCAPLUS

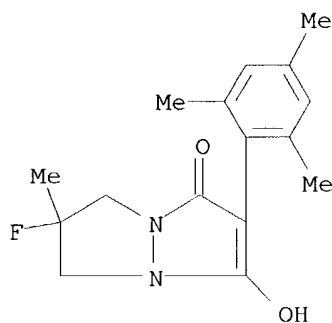
CN Butanoic acid, 4-chloro-2,2-dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-

trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



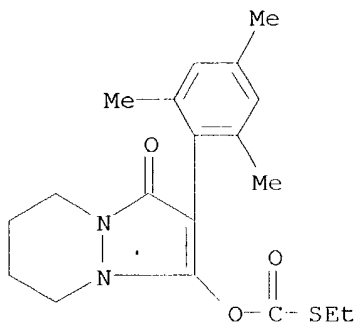
RN 144758-11-2 HCAPLUS

CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 6-fluoro-6,7-dihydro-3-hydroxy-6-methyl-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



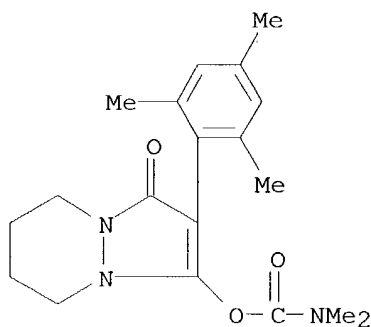
RN 144758-12-3 HCAPLUS

CN Carbonothioic acid, S-ethyl O-[5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl] ester (9CI) (CA INDEX NAME)



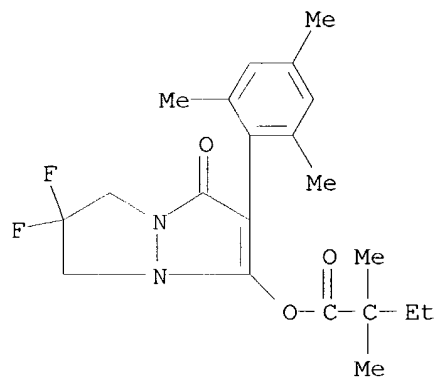
RN 144758-13-4 HCAPLUS

CN Carbamic acid, dimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



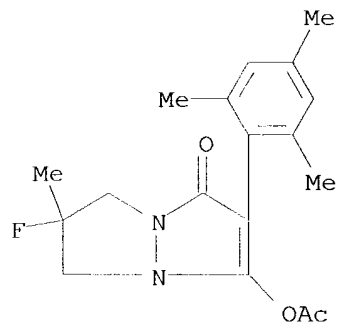
RN 144758-14-5 HCAPLUS

CN Butanoic acid, 2,2-dimethyl-, 6,6-difluoro-6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)

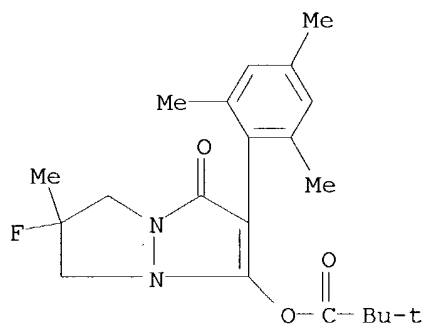


RN 144758-15-6 HCAPLUS

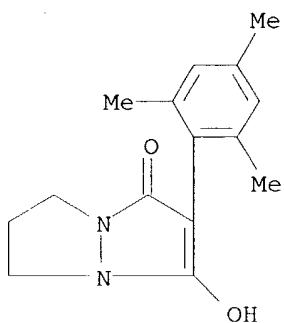
CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 3-(acetyloxy)-6-fluoro-6,7-dihydro-6-methyl-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



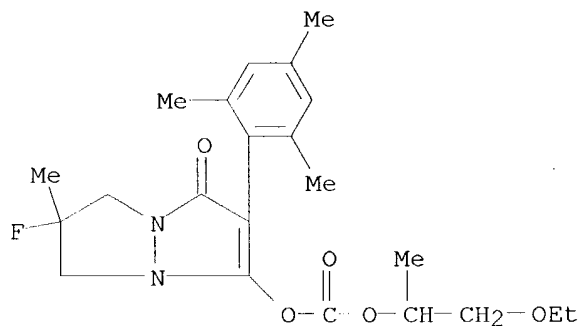
RN 144758-16-7 HCAPLUS  
 CN Propanoic acid, 2,2-dimethyl-, 6-fluoro-6,7-dihydro-6-methyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 144758-17-8 HCAPLUS  
 CN 1H,5H-Pyrazolo[1,2-a]pyrazol-1-one, 6,7-dihydro-3-hydroxy-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)

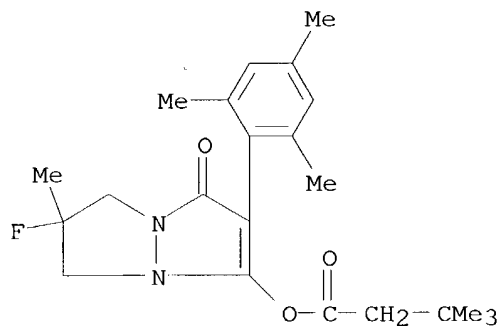


RN 144758-18-9 HCAPLUS  
 CN Carbonic acid, 2-ethoxy-1-methylethyl 6-fluoro-6,7-dihydro-6-methyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



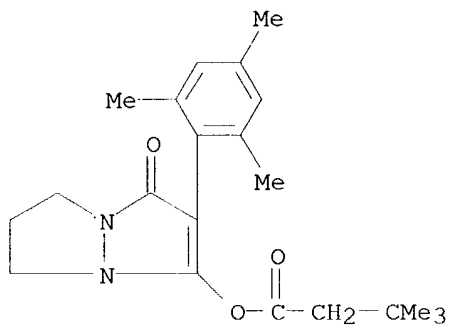
RN 144758-19-0 HCAPLUS

CN Butanoic acid, 3,3-dimethyl-, 6-fluoro-6,7-dihydro-6-methyl-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



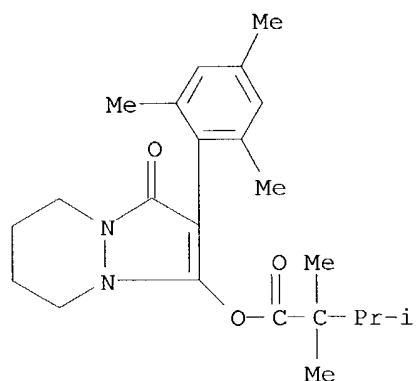
RN 144758-20-3 HCAPLUS

CN Butanoic acid, 3,3-dimethyl-, 6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



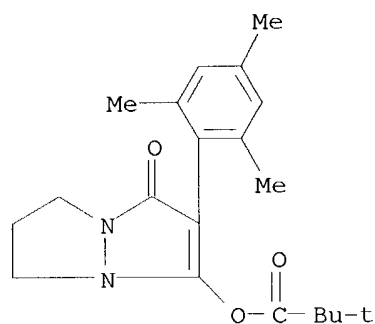
RN 144758-21-4 HCAPLUS

CN Butanoic acid, 2,2,3-trimethyl-, 5,6,7,8-tetrahydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H-pyrazolo[1,2-a]pyridazin-3-yl ester (9CI) (CA INDEX NAME)



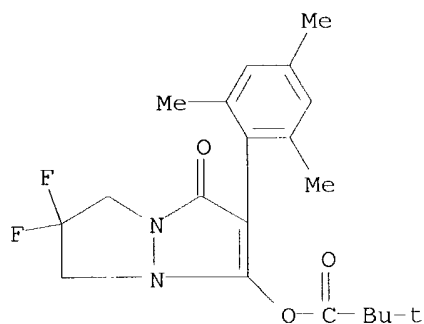
RN 144758-22-5 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 144758-23-6 HCAPLUS

CN Propanoic acid, 2,2-dimethyl-, 6,6-difluoro-6,7-dihydro-1-oxo-2-(2,4,6-trimethylphenyl)-1H,5H-pyrazolo[1,2-a]pyrazol-3-yl ester (9CI) (CA INDEX NAME)



RN 144758-24-7 HCAPLUS

CN 5,8-Methano-1H-pyrazolo[1,2-a]pyridazin-1-one, 5,6,7,8-tetrahydro-3-hydroxy-2-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)

